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November 14, 2005

Mr. Michael Romero
Oregon Department of Environmental Quality
2020 SW Fourth Ave., Suite 400
Portland, OR 97201

Re: Groundwater Monitoring/Project Status Update Report

Third Quarter 2005

Kinder Morgan Liquid Terminals, LLC
Linnton Terminal
Portland, Oregon
DEQ No. WPMVC-WMCVC-NWR-00-17
Delta Project No. PTKM-010-3

Dear Mr. Romero:

Delta Environmental Consultants, Inc. (Delta) has prepared this groundwater monitoring/project status update report on behalf of Kinder Morgan Liquid Terminals, LLC (KMLT) for the KMLT Linnton Terminal located at 11400 NW St. Helens Road in Portland, Oregon (Figure 1). Quarterly groundwater monitoring is currently being conducted at the site in accordance with the Remedial Investigation (RI) Work Plan dated February 2002. Field procedures were performed in accordance with Delta's standard operating procedures for quality assurance and quality control (QA/QC).

SCOPE OF WORK

The following scope of work was conducted as part of the third quarter 2005 groundwater monitoring and sampling event and the installation and operation of the Interim Remedial Action Measures (IRAM) system.

- On July 25 and 26, 2005, 38 groundwater monitoring wells and piezometers were monitored, and 14 wells were sampled.
- Monthly separate phase hydrocarbon (SPH) recovery was performed on each well containing SPH that is not addressed by the IRAM Area Containment system during the reporting period.
- Checked absorbent booms weekly during July, August and September 2005.
- Continued operation and maintenance (O&M) of IRAM System.

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METHODS AND PROCEDURES

Groundwater monitoring field activities conducted on July 25 and 26, 2005 consisted of gauging water level measurements in Wells MW-1 through MW-28, P-1, P-2, P-3, P-4, P-5A, and RW-1 through RW-5 as well as measuring parameters and collecting samples from Wells MW-4, MW-7, MW-8, MW-9, MW-12 through MW-15, MW-17, MW-18, MW-22, MW-25, MW-26 and MW-28. The approximate site boundaries, site structures and the approximate locations of the monitoring wells are presented in Figure 2.

Parameters measured in the wells consisted of water level measurements, pH, specific conductance, dissolved oxygen, and temperature. Static water levels were measured in Wells MW-1, MW-3, MW-4 through MW-10, MW-12 through MW-18, MW-20 through MW-22, MW-25 through MW-28, P-1, P-2, P-3, and P-5 on July 25, 2005. A depth-to-water measurement could not be attained from Wells MW-2, MW-11, MW-19, MW-23, MW-24, and P-4 due to the fouling of the probe by the relatively high viscosity SPH layer in these wells.

All measurements were recorded on field sampling forms (see Attachment A). Prior to collecting groundwater samples, each monitoring well was purged of at least three casing volumes of water. All 14 wells sampled were purged using clean disposable bailers and new nylon cord or using a centrifugal pump with disposable tubing. Wells MW-5, MW-6, and MW-27 were not sampled due to a lack of groundwater recharge after purging of the well. Approximately 120 gallons of water was purged from the wells.

After purging each monitoring well, groundwater samples were collected using new disposable bailers. The water samples were placed in laboratory-prepared containers and each sample was appropriately labeled so as to identify the sample number, project name, facility number, the date and time of sample collection and the sampler's name. Each sample was immediately placed in a chilled cooler for storage and samples were transported to the laboratory using strict chain-of-custody protocols.

ANALYTICAL METHODS

Collected groundwater samples were submitted to North Creek Analytical of Beaverton, Oregon on July 26, 2005 and analyzed for the following:

- Gasoline range hydrocarbons (TPH-Gx) by NW TPH-Gx Method.
- Diesel and heavy oil range hydrocarbons (TPH-Dx) by NW TPH-Dx Method.
- Benzene, toluene, ethylbenzene and total xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8021B.
- Polyaromatic hydrocarbons (PAHs) by EPA Method 8270M-SIM.
- Total metals by EPA 6000/7000 Series Methods.

RESULTS OF QUARTERLY MONITORING

Groundwater Elevation and Flow Direction

Depth to groundwater in the measured wells ranged from 14.67 feet below top of casing in Well MW-3 to 24.54 feet below top of casing in Well MW-5. SPH was observed in 18 wells during the third quarter monitoring event (MW-1, MW-2, MW-3, MW-10, MW-11, MW-16, MW-19, MW-20, MW-21, MW-23, MW-24, P-4, P-5, and RW-1 through RW-5). SPH thicknesses that could be measured ranged from

0.01 foot in Wells MW-10 and MW-21 to 0.60 feet in Well MW-20. The current and historic groundwater elevation data are summarized in Table 1.

Based on the groundwater level measurements taken during this monitoring event, the groundwater flow direction appears to be generally to the northeast, toward the Willamette River. This result is consistent with past monitoring events. Figure 2 illustrates the approximate water level elevation contours and gradient based upon measurements collected on July 25, 2005.

Groundwater Analytical Results

Benzene was detected above the laboratory method reporting limit (MRL) in seven of the fourteen wells sampled at concentrations ranging from 0.860 micrograms per liter ($\mu\text{g}/\text{L}$) in Well MW-26 to 420 $\mu\text{g}/\text{L}$ in Well MW-9. Overall benzene concentrations in groundwater from monitoring wells closest to the Willamette River and outside the general influence of the IRAM system (MW-7, MW-13, MW-12, MW-22, and MW-8), either remain near the detection limit or show an overall trend of decreasing benzene since 2003. Toluene, ethylbenzene and xylene concentrations also show this general trend.

PAHs were detected above the laboratory MRL in eight of the fourteen wells sampled at concentrations ranging from 0.121 $\mu\text{g}/\text{L}$ of fluoranthene in Well MW-26 to 71.0 $\mu\text{g}/\text{L}$ of acenaphthene in Well MW-8 (see Table 3). PAH concentrations from the Willamette River wells (described above) were consistent with previous sampling events and did not show any obvious concentration trends.

Concentrations of total petroleum hydrocarbons (TPH) as gasoline were detected above laboratory MRLs in eight of the fourteen wells sampled, ranging from 106 $\mu\text{g}/\text{L}$ in MW-4 to 3,140 $\mu\text{g}/\text{L}$ in Well MW-28 (see Table 2). Concentrations of TPH as diesel were detected above laboratory MRLs in eight of the fourteen sampled wells, ranging from 827 $\mu\text{g}/\text{L}$ in Well MW-8 to 52,300 $\mu\text{g}/\text{L}$ in Well MW-4. TPH as heavy oil was detected above the laboratory MRL in three of the fourteen wells sampled ranging from 503 $\mu\text{g}/\text{L}$ in Well MW-28 to 1,890 $\mu\text{g}/\text{L}$ in Well MW-4. TPH concentrations from the Willamette River wells (described above) were consistent with previous sampling events and did not show any obvious concentration trends.

Concentrations of total metals were detected above the laboratory MRL in all 14 sampled wells. Concentrations ranged from 0.000349 mg/L of mercury in Well MW-28 to 0.698 mg/L of barium in Well MW-26. The total metal concentrations were typical of previous sampling events. The analytical results for metals are presented in Table 4.

A summary of the laboratory analytical results is presented in Tables 2, 3 and 4. A complete copy of the laboratory report and chain-of-custody documentation is included in Attachment B.

Monthly SPH Recovery

Manual bailing of SPH was conducted at the site once a month during July, August and September 2005. SPH bailing was conducted on the following wells: MW-1, MW-3, MW-10, MW-11, MW-16, MW-20, MW-21, MW-23, MW-24, and P-5. An approximate total of 3 gallons of SPH were recovered during the third quarter of 2005 by manual bailing. Table 1 shows the amount of SPH bailed from each well over the three-month period (third quarter).

IRAM System O&M Activities

The IRAM area containment system began operation on July 26, 2004. The IRAM system was initially designed to capture dissolved phase and SPH from five previously installed recovery wells (RW-1 through RW-5) using a two-pump system configuration.

One groundwater extraction pump is situated to lower the water table and provide hydraulic containment and the second pneumatic pump designed to recover SPH. In addition to the two-pump configuration in RW-1 through RW-5, SPH is also continuously skimmed off the groundwater surface in Wells MW-2 and MW-19 using an SPH-only pump. The SPH from MW-2 and MW-19 is pumped to a holding tank prior to transport to a product recycler.

In June 2005, the IRAM system was reconfigured to increase hydraulic capture by lowering the set points of the groundwater extraction pumps and converting these pumps to recover total fluids (groundwater and SPH). Pneumatic SPH recovery pumps were removed or shut off at this time. Total fluid recovery from the system was increased from approximately 3 gpm to approximately 10 gpm with an additional four feet of drawdown.

The extracted groundwater and SPH is now pumped into a 20,000 gallon holding tank for phase separation. From this tank the phase separated groundwater is transferred into a batch tank before final treatment through two 2,000-pound carbon vessels prior to discharge to the Willamette River in accordance with existing NPDES Permit File No. ORG 910059.

Delta completes the O&M visits twice a week. During these visits, the system operation is monitored and the system components are adjusted or maintained as needed. System adjustments and maintenance checks involve tasks such as cleaning pump control sensors, removing collected SPH from the storage tank, backflushing the carbon vessels, cleaning the batch tank and controls, checking the operation of the groundwater and remaining SPH pumps, adjusting flow rates and compliance sampling. Measurements and readings recorded during each of the site visits are as follows:

- Pressure readings at the manifold, sand filter and both carbon vessels.
- Flow totals for each of the recovery wells.
- Recovery well transducer water level readings (liquid level in each well).
- SPH level in the product storage tank.

In addition, the condition of the hard boom and absorbent booms are checked and noted in the field notes. The field technician also checks for the presence or absence of a sheen within the boomed area.

This information is used to evaluate the performance of the system. During the third quarter of 2005 (the fifth quarter the IRAM system was operated), the system was non-operational for several days. The liquid level data collected during the second quarter field visits indicate that the total fluid pumping system has lowered the groundwater level immediately adjacent to the recovery wells. During the fourth quarter of 2005, Delta will continue to monitor the liquid levels and will adjust the flow rates of the pumps to attempt to maximize the groundwater capture zone of the IRAM system.

ACTIVITIES SCHEDULED FOR THE FOURTH QUARTER OF 2005

- Perform monthly SPH removal from wells that have historically contained SPH.
- Sample selected monitoring wells during the October 2005 sampling event (fourth quarter event).
- Perform weekly inspections of the containment booms in the seep area.
- Submit Revised IRAM system assessment work plan to DEQ and initiate the assessment of the IRAM system.
- Continue O&M of the IRAM area containment system.

Michael Romero
Oregon Department of Environmental Quality
November 14, 2005
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Please contact Mr. Robert Truedinger of KMLT at (510) 412-8843 or the undersigned at (503) 639-8098 if you have any questions regarding this report or any other aspect of this project.

Sincerely,
Delta Environmental Consultants, Inc.



Tim Browning, R.G.
Senior Project Geologist



Attachments: Table 1 - Groundwater Elevation and SPH Data
Table 2 - Groundwater Sample Analytical Results- TPH, BTEX-N
Table 3 - Groundwater Sample Analytical Results- PAHs
Table 4 - Groundwater Sample Analytical Results- Total Metals
Figure 1 - Site Location Map
Figure 2 - Groundwater Elevation Contours and SPH Thickness

Attachment A - Field Forms
Attachment B - Certified Analytical Reports and Chain-of-Custody Documentation

cc: Mr. Robert Truedinger, KMEP
Ms. Sheryl Nguyen, KMEP
Mr. Wally Stevenson, KMEP
Mr. Gregg Lies, KMEP

TABLE 1
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

| Well Identification (TOC) | Date Gauged | Depth to Water (ft) | Depth to SPH (ft) | SPH Thickness (ft) | Groundwater Elevation ¹ (ft) | Recovered by Quarter (gallons) |
|------------------------------|-----------------------|------------------------|----------------------|-----------------------|--|--------------------------------------|
| MW-1 | 02/01/02 | 13.34 | 13.34 | sheen | 14.64 | - |
| (27.98) | 04/24/02 | 13.26 | 13.26 | sheen | 14.72 | - |
| | 07/29/02 | 15.82 | 15.80 | 0.02 | 12.18 | 0.41 |
| | 10/29/02 | 18.41 | 18.40 | 0.01 | 9.58 | - |
| | 11/26/02* | 17.91 | 17.81 | 0.10 | 10.15 | - |
| | 12/30/02 | 15.63 | 15.63 | sheen | 12.35 | 0.56 |
| | 01/28/03 | 15.15 | NP | 0.00 | 12.83 | 0.00 |
| | 04/29/03 | 13.15 | NP | 0.00 | 14.83 | 0.00 |
| | 07/29/03 ² | 16.31 | 16.31 | sheen | 11.67 | 0.60 |
| | 10/28/03 | 17.35 | 17.18 | 0.17 | 10.77 | - |
| | 01/29/04 | 13.30 | 13.20 | 0.10 | 14.76 | 1.80 |
| | 04/28/04 | 15.84 | 15.73 | 0.11 | 12.23 | 0.30 |
| | 07/26/04 | 17.33 | 17.18 | 0.15 | 10.77 | 0.50 |
| | 11/01/04 | 17.72 | 17.14 | 0.58 | 10.72 | 0.60 |
| | 02/01/05 | 16.65 | 16.34 | 0.31 | 11.58 | 0.90 |
| | 04/28/05 | 15.47 | 15.41 | 0.06 | 12.56 | 0.30 |
| | 07/25/05 | 16.27 | 16.25 | 0.02 | 11.73 | 0.30 |
| MW-2 | 01/29/02 | 14.27 | 13.60 | 0.67 | 14.74 | 2.50 |
| (28.47) | 04/24/02 | 13.96 | 13.37 | 0.59 | 14.98 | 0.55 |
| | 07/29/02 | 16.50 | 16.16 | 0.34 | 12.24 | 1.20 |
| | 10/29/02 | 18.93 | 18.92 | 0.01 | 9.55 | 1.30 |
| | 11/26/02* | 18.82 | 18.52 | 0.30 | 9.89 | - |
| | 12/30/02 | 16.81 | 16.33 | 0.48 | 12.04 | - |
| | 01/28/03 | 16.04 | 15.70 | 0.34 | 12.70 | 0.65 |
| | 04/29/03 | 13.81 | 13.27 | 0.54 | 15.09 | 1.10 |
| | 07/29/03 | 17.23 | 16.92 | 0.31 | 11.49 | 5.00 |
| | 10/28/03 | 19.53 | 17.58 | 1.95 | 10.50 | - |
| | 01/29/04 | 14.48 | 13.31 | 1.17 | 14.93 | 4.20 |
| | 07/26/04 | 15.34 | 15.05 | 0.29 | 13.36 | 0.20 |
| | 11/01/04 | 17.03 | 14.86 | 2.17 | 13.18 | IRAM Sys |
| | 02/01/05 | 14.08 | 14.00 | 0.08 | 14.45 | IRAM Sys |
| | 04/28/05 | 17.82 | 16.91 | 0.91 | 11.38 | IRAM Sys |
| | 07/25/05 | - | 14.35 | - | - | IRAM Sys |
| MW-3 | 01/29/02 | 13.04 | 12.86 | 0.18 | 16.07 | 0.25 |
| (28.97) | 04/24/02 | 13.11 | 13.00 | 0.11 | 15.95 | 0.40 |
| | 07/29/02 | 14.69 | 14.42 | 0.27 | 14.50 | 0.55 |
| | 10/29/02 | 16.11 | NP | Sheen | 12.86 | 0.51 |
| | 11/26/02* | 16.08 | 15.72 | 0.36 | 13.18 | - |
| | 01/28/03 | 14.15 | 14.07 | 0.08 | 14.88 | 0.35 |
| | 04/29/03 | 12.75 | 12.71 | 0.04 | 16.25 | 0.45 |
| | 07/29/03 | 15.03 | 14.83 | 0.20 | 14.10 | 1.05 |
| | 10/28/03 | 15.58 | 15.51 | 0.07 | 13.45 | - |
| | 01/29/04 | 12.87 | 12.84 | 0.03 | 16.12 | 0.20 |
| | 04/28/04 | 14.05 | 14.00 | 0.05 | 14.46 | 0.25 |
| | 07/26/04 | 15.24 | 15.14 | 0.10 | 13.31 | 0.20 |
| | 11/01/04 | 15.29 | 15.25 | 0.04 | 13.21 | 0.20 |
| | 02/01/05 | 15.04 | 15.00 | 0.04 | 13.46 | 0.30 |
| | 04/28/05 | 14.38 | Sheen | 0.00 | 14.09 | 0.30 |
| | 07/25/05 | 14.67 | Sheen | 0.00 | 13.80 | 0.30 |

TABLE 1
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Kinder Morgan Liquid Terminals LLC
Linnton Terminal
Portland, Oregon

| Well Identification (TOC) | Date Gauged | Depth to Water (ft) | Depth to SPH (ft) | SPH Thickness (ft) | Groundwater Elevation ¹ (ft) | Recovered by Quarter (gallons) |
|------------------------------|-------------|------------------------|----------------------|-----------------------|--|-----------------------------------|
| MW-4 | 02/01/02 | 17.74 | NP | 0.00 | 15.14 | - |
| (32.88) | 04/24/02 | 17.49 | NP | 0.00 | 15.39 | - |
| | 07/29/02 | 20.19 | NP | 0.00 | 12.69 | - |
| | 10/29/02 | 22.72 | NP | 0.00 | 10.16 | - |
| | 01/28/03 | 19.82 | NP | 0.00 | 8.65 | - |
| | 04/29/03 | 17.29 | NP | 0.00 | 15.59 | - |
| | 07/29/03 | 20.54 | NP | 0.00 | 12.34 | - |
| | 10/28/03 | 21.67 | NP | 0.00 | 11.21 | - |
| | 01/29/04 | 17.71 | NP | 0.00 | 15.17 | - |
| | 04/28/04 | 20.21 | NP | 0.00 | 12.67 | - |
| | 07/26/04 | 21.74 | NP | 0.00 | 11.14 | - |
| | 11/01/04 | 21.75 | NP | 0.00 | 11.13 | - |
| | 02/01/05 | 21.03 | NP | 0.00 | 11.85 | - |
| | 04/28/05 | 19.69 | NP | 0.00 | 13.19 | - |
| | 07/25/05 | 20.89 | NP | 0.00 | 11.99 | - |
| MW-5 | 01/31/02 | 21.73 | NP | 0.00 | 18.35 | - |
| (40.08) | 04/24/02 | 21.76 | NP | 0.00 | 18.32 | - |
| | 07/29/02 | 23.87 | NP | 0.00 | 16.21 | - |
| | 10/29/02 | DRY | NP | 0.00 | DRY | - |
| | 01/28/03 | 23.81 | NP | 0.00 | 16.27 | - |
| | 04/29/03 | 20.95 | NP | 0.00 | 19.13 | - |
| | 07/29/03 | 24.46 | NP | 0.00 | 15.62 | - |
| | 10/28/03 | DRY | NP | 0.00 | DRY | - |
| | 01/29/04 | 21.91 | NP | 0.00 | 18.17 | - |
| | 04/28/04 | 23.21 | NP | 0.00 | 16.87 | - |
| | 07/26/04 | Dry | NP | 0.00 | - | - |
| | 11/01/04 | Dry | NP | 0.00 | - | - |
| | 02/01/05 | Dry | NP | 0.00 | - | - |
| | 04/28/05 | 23.98 | NP | 0.00 | 16.10 | - |
| | 07/25/05 | 24.54 | NP | 0.00 | 15.54 | - |
| MW-6 | 02/01/02 | 16.77 | NP | 0.00 | 20.16 | - |
| (36.93) | 04/24/02 | 17.82 | NP | 0.00 | 19.11 | - |
| | 07/29/02 | 20.85 | NP | 0.00 | 16.08 | - |
| | 10/29/02 | 21.51 | NP | 0.00 | 15.42 | - |
| | 01/28/03 | 19.72 | NP | 0.00 | 17.21 | - |
| | 04/29/03 | 15.88 | NP | 0.00 | 21.05 | - |
| | 07/29/03 | DRY | NP | 0.00 | DRY | - |
| | 10/28/03 | 21.61 | NP | 0.00 | 15.32 | - |
| | 01/29/04 | 16.59 | NP | 0.00 | 20.34 | - |
| | 04/28/04 | 19.72 | NP | 0.00 | 17.21 | - |
| | 07/26/04 | Dry | NP | 0.00 | - | - |
| | 11/01/04 | 21.58 | NP | 0.00 | - | - |
| | 02/01/05 | 21.35 | NP | 0.00 | - | - |
| | 04/28/05 | 20.21 | NP | 0.00 | 16.72 | - |
| | 07/25/05 | 21.24 | NP | 0.00 | 15.69 | - |

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Portland, Oregon

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|------------------------------|-------------|------------------------|----------------------|-----------------------|--|---------------------------------------|
| MW-7 (32.26) | 01/31/02 | 17.74 | NP | 0.00 | 14.52 | - |
| | 04/24/02 | 17.81 | NP | 0.00 | 14.45 | - |
| | 07/29/02 | 20.06 | NP | 0.00 | 12.20 | - |
| | 10/29/02 | 22.40 | NP | 0.00 | 9.86 | - |
| | 01/28/03 | 19.02 | NP | 0.00 | 13.24 | - |
| | 04/29/03 | 16.23 | NP | 0.00 | 16.03 | - |
| | 07/29/03 | 20.52 | NP | 0.00 | 11.74 | - |
| | 10/28/03 | 21.41 | NP | 0.00 | 10.85 | - |
| | 01/29/04 | 16.49 | NP | 0.00 | 15.77 | - |
| | 04/28/04 | 19.78 | NP | 0.00 | 12.48 | - |
| | 07/26/04 | 21.30 | NP | 0.00 | 10.96 | - |
| | 11/01/04 | 21.31 | NP | 0.00 | 10.95 | - |
| | 02/01/05 | 20.42 | NP | 0.00 | 11.84 | - |
| | 04/28/05 | 19.01 | NP | 0.00 | 13.25 | - |
| | 07/25/05 | 20.09 | NP | 0.00 | 12.17 | - |
| MW-8 (30.06) | 02/01/02 | 17.01 | NP | 0.00 | 13.05 | - |
| | 04/24/02 | 16.58 | NP | 0.00 | 13.48 | - |
| | 07/29/02 | 19.32 | NP | 0.00 | 10.74 | - |
| | 10/29/02 | 20.83 | NP | 0.00 | 9.23 | - |
| | 01/28/03 | 18.47 | NP | 0.00 | 11.59 | - |
| | 04/29/03 | 16.93 | NP | 0.00 | 13.13 | - |
| | 07/29/03 | 20.06 | NP | 0.00 | 10.00 | - |
| | 10/28/03 | 20.43 | NP | 0.00 | 9.63 | - |
| | 01/29/04 | 17.00 | NP | 0.00 | 13.06 | - |
| | 04/28/04 | 19.59 | NP | 0.00 | 10.47 | - |
| | 07/26/04 | 20.31 | NP | 0.00 | 9.75 | - |
| | 11/01/04 | 20.30 | NP | 0.00 | 9.76 | - |
| | 02/01/05 | 19.65 | NP | 0.00 | 10.41 | - |
| | 04/28/05 | 18.91 | NP | 0.00 | 11.15 | - |
| | 07/25/05 | 19.50 | NP | 0.00 | 10.56 | - |
| MW-9 (30.45) | 02/01/02 | 15.25 | NP | 0.00 | 15.20 | - |
| | 04/24/02 | 15.49 | NP | 0.00 | 14.96 | - |
| | 07/29/02 | 16.71 | NP | 0.00 | 13.74 | - |
| | 10/29/02 | 18.77 | NP | 0.00 | 11.68 | - |
| | 01/28/03 | 16.35 | NP | 0.00 | 14.10 | - |
| | 04/29/03 | 14.31 | NP | 0.00 | 16.14 | - |
| | 07/29/03 | 17.55 | NP | 0.00 | 12.90 | - |
| | 10/28/03 | 18.44 | NP | 0.00 | 12.01 | - |
| | 01/29/04 | 14.67 | NP | 0.00 | 15.78 | - |
| | 04/28/04 | 16.59 | NP | 0.00 | 13.86 | - |
| | 07/26/04 | 17.91 | NP | 0.00 | 12.54 | - |
| | 11/01/04 | 18.20 | NP | 0.00 | 12.25 | - |
| | 02/01/05 | 17.18 | NP | 0.00 | 13.27 | - |
| | 04/28/05 | 16.56 | NP | 0.00 | 13.89 | - |
| | 07/25/05 | 17.31 | NP | 0.00 | 13.14 | - |

TABLE 1
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 Linnton Terminal
 Portland, Oregon

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|------------------------------|-------------|------------------------|----------------------|-----------------------|--|-----------------------------------|
| MW-10 | 02/01/02 | 11.84 | NP | 0.00 | 18.48 | - |
| (30.32) | 04/24/02 | 14.00 | NP | 0.00 | 16.32 | - |
| | 07/29/02 | 18.08 | 17.03 | 1.05 | 13.08 | 0.50 |
| | 10/29/02 | 20.86 | 20.72 | 0.14 | 9.57 | 0.13 |
| | 11/26/02* | 19.82 | 19.81 | 0.01 | 10.51 | - |
| | 01/28/03 | 13.84 | 13.61 | 0.23 | 16.66 | 0.20 |
| | 04/29/03 | 14.36 | NP | 0.00 | 15.96 | 0.01 |
| | 07/29/03 | 18.51 | NP | 0.00 | 11.81 | 0.01 |
| | 10/28/03 | 18.28 | NP | 0.00 | 12.04 | - |
| | 01/29/04 | 12.59 | 12.28 | 0.31 | 17.98 | 0.40 |
| | 04/28/04 | 16.51 | 16.51 | Sheen | 11.96 | 0.10 |
| | 07/26/04 | 19.55 | 19.55 | Sheen | 10.77 | 0.30 |
| | 11/01/04 | 17.89 | 17.85 | 0.31 | 12.68 | 0.20 |
| | 02/01/05 | 16.08 | 15.98 | 0.10 | 14.32 | 0.30 |
| | 04/28/05 | 14.43 | 14.41 | 0.02 | 15.91 | 0.30 |
| | 07/25/05 | 17.45 | 17.44 | 0.01 | 12.88 | 0.30 |
| MW-11 | 01/29/02 | 19.06 | NP | 0.00 | 15.97 | 0.17 |
| (35.03) | 04/24/02 | 18.91 | 18.48 | 0.43 | 16.46 | 0.25 |
| | 07/29/02 | 22.02 | 20.75 | 1.27 | 14.03 | 0.95 |
| | 10/29/02 | 25.50 | 23.20 | 2.30 | 11.37 | 1.95 |
| | 11/26/02* | 25.10 | 23.05 | 2.05 | 11.57 | - |
| | 01/28/03 | 21.00 | 20.65 | 0.35 | 14.31 | 0.45 |
| | 04/29/03 | 20.06 | 18.55 | 1.51 | 16.18 | 0.60 |
| | 07/29/03 | - | 21.15 | >3.0 | - | 0.65 |
| | 10/28/03 | - | 22.30 | - | - | - |
| | 01/29/04 | - | 18.99 | - | - | 0.40 |
| | 04/28/04 | - | 19.42 | - | - | 2.35 |
| | 07/26/04 | - | 21.41 | - | - | 0.95 |
| | 11/01/04 | - | 22.55 | - | - | 5.25 |
| | 02/01/05 | - | 21.72 | - | - | 0.50 |
| | 04/28/05 | - | 20.41 | - | - | 4.20 |
| | 07/25/05 | - | 21.75 | - | - | 0.10 |
| MW-12 | 01/31/02 | 14.85 | NP | 0.00 | 19.18 | - |
| (34.03) | 04/24/02 | 15.32 | NP | 0.00 | 18.71 | - |
| | 07/29/02 | 16.77 | NP | 0.00 | 17.26 | - |
| | 10/29/02 | 17.99 | NP | 0.00 | 16.04 | - |
| | 01/28/03 | 16.21 | NP | 0.00 | 17.82 | - |
| | 04/29/03 | 14.99 | NP | 0.00 | 19.04 | - |
| | 07/29/03 | 16.56 | NP | 0.00 | 17.47 | - |
| | 10/28/03 | 17.61 | 17.60 | 0.01 | 16.43 | - |
| | 01/29/04 | 14.98 | NP | 0.00 | 19.05 | - |
| | 04/28/04 | 15.76 | NP | 0.00 | 18.27 | - |
| | 07/26/04 | 16.97 | NP | 0.00 | 17.06 | - |
| | 11/01/04 | 17.57 | NP | 0.00 | 16.46 | - |
| | 02/01/05 | 16.75 | NP | 0.00 | 17.28 | - |
| | 04/28/05 | 16.36 | NP | 0.00 | 17.67 | - |
| | 07/25/05 | 16.30 | NP | 0.00 | 17.73 | - |

TABLE 1
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals LLC
Linnont Terminal
Portland, Oregon

| Well Identification (TOC) | Date Gauged | Depth to Water (ft) | Depth to SPH (ft) | SPH Thickness (ft) | Groundwater Elevation ¹ (ft) | Recovered by Quarter (gallons) |
|------------------------------|-------------|------------------------|----------------------|-----------------------|--|-----------------------------------|
| MW-13 (35.81) | 01/31/02 | 17.67 | NP | 0.00 | 18.14 | - |
| | 04/24/02 | 18.35 | NP | 0.00 | 17.46 | - |
| | 07/29/02 | 19.35 | NP | 0.00 | 16.46 | - |
| | 10/29/02 | 25.42 | NP | 0.00 | 10.39 | - |
| | 01/28/03 | 20.52 | NP | 0.00 | 15.29 | - |
| | 04/29/03 | 17.41 | NP | 0.00 | 18.40 | - |
| | 07/29/03 | 21.47 | NP | 0.00 | 14.34 | - |
| | 10/28/03 | 24.25 | NP | 0.00 | 11.56 | - |
| | 01/29/04 | 17.97 | NP | 0.00 | 17.84 | - |
| | 04/28/04 | 20.22 | NP | 0.00 | 15.59 | - |
| | 07/26/04 | 22.07 | NP | 0.00 | 13.74 | - |
| | 11/01/04 | 23.90 | NP | 0.00 | 11.91 | - |
| | 02/01/05 | 21.43 | NP | 0.00 | 14.38 | - |
| | 04/28/05 | 20.65 | NP | 0.00 | 15.16 | - |
| | 07/25/05 | 20.96 | NP | 0.00 | 14.85 | - |
| MW-14 (36.54) | 01/31/02 | 17.71 | NP | 0.00 | 18.83 | - |
| | 04/24/02 | 18.42 | NP | 0.00 | 18.12 | - |
| | 07/29/02 | 21.47 | NP | 0.00 | 15.07 | - |
| | 10/29/02 | 23.99 | NP | 0.00 | 12.55 | - |
| | 01/28/03 | 20.62 | NP | 0.00 | 15.92 | - |
| | 04/29/03 | 16.91 | NP | 0.00 | 19.63 | - |
| | 07/29/03 | 22.26 | NP | 0.00 | 14.28 | - |
| | 10/28/03 | 23.68 | NP | 0.00 | 12.86 | - |
| | 01/29/04 | 17.79 | NP | 0.00 | 18.75 | - |
| | 04/28/04 | 19.94 | NP | 0.00 | 16.60 | - |
| | 07/26/04 | 22.72 | NP | 0.00 | 13.82 | - |
| | 11/01/04 | 23.45 | NP | 0.00 | 13.09 | - |
| | 02/01/05 | 22.05 | NP | 0.00 | 14.49 | - |
| | 04/28/05 | 20.99 | NP | 0.00 | 15.55 | - |
| | 07/25/05 | 21.86 | NP | 0.00 | 14.68 | - |
| MW-15 (37.15) | 01/31/02 | 15.12 | NP | 0.00 | 22.03 | - |
| | 04/24/02 | 16.13 | NP | 0.00 | 21.02 | - |
| | 07/29/02 | 19.93 | NP | 0.00 | 17.22 | - |
| | 10/29/02 | 22.59 | NP | 0.00 | 14.56 | - |
| | 01/28/03 | 18.26 | NP | 0.00 | 18.89 | - |
| | 04/29/03 | 14.28 | NP | 0.00 | 22.87 | - |
| | 07/29/03 | 20.63 | NP | 0.00 | 16.52 | - |
| | 10/28/03 | 22.41 | NP | 0.00 | 14.74 | - |
| | 01/29/04 | 14.80 | NP | 0.00 | 22.35 | - |
| | 04/28/04 | 18.42 | NP | 0.00 | 18.73 | - |
| | 07/26/04 | 21.19 | NP | 0.00 | 15.96 | - |
| | 11/01/04 | 22.10 | NP | 0.00 | 15.05 | - |
| | 02/01/05 | 20.35 | NP | 0.00 | 16.80 | - |
| | 04/28/05 | 19.90 | NP | 0.00 | 17.25 | - |
| | 07/25/05 | 20.24 | NP | 0.00 | 16.91 | - |

TABLE 1
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

| Well Identification (TOC) | Date Gauged | Depth to Water (ft) | Depth to SPH (ft) | SPH Thickness (ft) | Groundwater Elevation ¹ (ft) | Recovered by Quarter (gallons) |
|------------------------------|-------------|------------------------|----------------------|-----------------------|--|-----------------------------------|
| MW-16 | 01/31/02 | 8.91 | NP | 0.00 | 30.04 | - |
| (38.95) | 04/24/02 | 11.04 | NP | 0.00 | 27.91 | - |
| | 07/29/02 | 11.93 | NP | 0.00 | 27.02 | - |
| | 10/29/02 | 12.85 | 12.75 | 0.10 | 26.18 | 0.11 |
| | 11/26/02* | 12.05 | 12.00 | 0.05 | 26.94 | - |
| | 01/28/03 | 10.11 | NP | 0.00 | 28.84 | - |
| | 04/29/03 | 9.85 | NP | 0.00 | 29.10 | - |
| | 07/29/03 | 12.14 | NP | 0.00 | 26.81 | - |
| | 10/28/03 | 11.83 | NP | 0.00 | 27.12 | - |
| | 01/29/04 | 9.23 | NP | 0.00 | 29.72 | - |
| | 04/28/04 | 11.12 | NP | 0.00 | 27.83 | - |
| | 07/26/04 | 12.17 | 12.17 | Sheen | 26.78 | - |
| | 11/01/04 | 11.51 | NP | 0.00 | 27.44 | - |
| | 02/01/05 | 11.05 | 11.04 | 0.01 | 27.91 | 0.10 |
| | 04/28/05 | 10.75 | sheen | 0.00 | 28.20 | 0.10 |
| | 07/25/05 | 16.71 | 16.68 | 0.03 | 22.26 | 0.10 |
| MW-17 | 01/31/02 | 16.93 | NP | 0.00 | 19.64 | - |
| (36.57) | 04/24/02 | 17.83 | NP | 0.00 | 18.74 | - |
| | 07/29/02 | 20.83 | NP | 0.00 | 15.74 | - |
| | 10/29/02 | 23.38 | NP | 0.00 | 13.19 | - |
| | 01/28/03 | 19.87 | NP | 0.00 | 16.70 | - |
| | 04/29/03 | 16.04 | NP | 0.00 | 20.53 | - |
| | 07/29/03 | 21.59 | NP | 0.00 | 14.98 | - |
| | 10/28/03 | 23.15 | NP | 0.00 | 13.42 | - |
| | 01/29/04 | 16.16 | NP | 0.00 | 20.41 | - |
| | 04/28/04 | 19.80 | NP | 0.00 | 16.77 | - |
| | 07/26/04 | 22.08 | NP | 0.00 | 14.49 | - |
| | 11/01/04 | 22.91 | NP | 0.00 | 13.66 | - |
| | 02/01/05 | 21.40 | NP | 0.00 | 15.17 | - |
| | 04/28/05 | 20.30 | NP | 0.00 | 16.27 | - |
| | 07/25/05 | 21.21 | NP | 0.00 | 15.36 | - |
| MW-18 | 04/24/02 | 19.41 | NP | 0.00 | 17.25 | - |
| (36.66) | 07/30/02 | 22.21 | NP | 0.00 | 14.45 | - |
| | 10/29/02 | 24.71 | NP | 0.00 | 11.95 | - |
| | 01/28/03 | 21.20 | NP | 0.00 | 15.46 | - |
| | 04/29/03 | 17.85 | NP | 0.00 | 18.81 | - |
| | 07/29/03 | 23.02 | NP | 0.00 | 13.64 | - |
| | 10/28/03 | 24.28 | NP | 0.00 | 12.38 | - |
| | 01/29/04 | 18.45 | NP | 0.00 | 18.21 | - |
| | 04/28/04 | 21.51 | NP | 0.00 | 15.15 | - |
| | 07/26/04 | 23.46 | NP | 0.00 | 13.20 | - |
| | 11/01/04 | 24.04 | NP | 0.00 | 12.62 | - |
| | 02/01/05 | 22.75 | NP | 0.00 | 13.91 | - |
| | 04/28/05 | 21.64 | NP | 0.00 | 15.02 | - |
| | 07/25/05 | 22.58 | NP | 0.00 | 14.08 | - |

TABLE 1
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

| Well Identification (TOC) | Date Gauged | Depth to Water (ft) | Depth to SPH (ft) | SPH Thickness (ft) | Groundwater Elevation ¹ (ft) | Recovered by Quarter (gallons) |
|------------------------------|-------------|------------------------|----------------------|-----------------------|--|-----------------------------------|
| MW-19 (30.34) | 04/29/03 | 14.88 | 14.80 | 0.08 | 15.52 | 3.00 |
| | 07/29/03 | 19.75 | 17.94 | 1.81 | 12.04 | 8.50 |
| | 10/28/03 | 20.08 | 18.88 | 1.20 | 11.22 | - |
| | 01/29/04 | 13.71 | 13.47 | 0.24 | 16.82 | 1.65 |
| | 04/28/04 | 18.65 | 17.48 | 0.24 | 11.88 | - |
| | 07/26/04 | 16.70 | 16.44 | 0.26 | 13.85 | IRAM Sys |
| | 11/01/04 | 16.99 | 16.58 | 0.41 | 13.68 | IRAM Sys |
| | 02/01/05 | NM | 15.17 | NM | NM | IRAM Sys |
| | 04/28/05 | NM | 18.61 | NM | NM | IRAM Sys |
| | 07/25/05 | - | 16.03 | - | - | IRAM Sys |
| MW-20 (30.25) | 04/29/03 | 13.42 | NP | 0.00 | 16.83 | - |
| | 07/29/03 | 18.26 | NP | 0.00 | 11.99 | - |
| | 10/28/03 | 19.60 | 19.49 | 0.11 | 10.74 | - |
| | 01/29/04 | 13.75 | 12.42 | 1.33 | 17.56 | 4.75 |
| | 04/28/04 | 16.51 | 16.01 | 0.50 | 12.36 | - |
| | 07/26/04 | 18.65 | 18.32 | 0.33 | 10.08 | 0.60 |
| | 11/01/04 | 18.30 | 18.07 | 0.23 | 10.35 | 1.90 |
| | 02/01/05 | 15.39 | 14.89 | 0.50 | 13.48 | 2.10 |
| | 04/28/05 | 15.22 | 13.82 | 1.40 | 14.37 | 2.50 |
| | 07/25/05 | 17.15 | 16.55 | 0.60 | 11.80 | 1.35 |
| MW-21 (30.62) | 04/29/03 | 8.12 | NP | 0.00 | 22.50 | - |
| | 07/29/03 | 17.02 | NP | 0.00 | 13.60 | - |
| | 10/28/03 | 18.62 | 18.36 | 0.26 | 12.21 | - |
| | 01/29/04 | 9.98 | 9.78 | 0.20 | 20.80 | 1.00 |
| | 04/28/04 | 15.72 | 15.67 | 0.05 | 14.94 | 0.10 |
| | 07/26/04 | 17.84 | 17.83 | 0.01 | 12.79 | 0.20 |
| | 11/01/04 | 16.93 | 16.89 | 0.04 | 13.72 | 0.30 |
| | 02/01/05 | 15.55 | 15.53 | 0.02 | 15.09 | 0.20 |
| | 04/28/05 | 14.95 | Sheen | 0.00 | 15.67 | 0.30 |
| | 07/25/05 | 17.48 | 17.47 | 0.01 | 13.15 | 0.30 |
| MW-22 (30.19) | 04/29/03 | 15.61 | NP | 0.00 | 14.58 | - |
| | 07/29/03 | 19.75 | NP | 0.00 | 10.44 | - |
| | 10/28/03 | 20.33 | NP | 0.00 | 9.86 | - |
| | 01/29/04 | 14.88 | NP | 0.00 | 15.31 | - |
| | 04/28/04 | 18.69 | NP | 0.00 | 11.50 | 0.05 |
| | 07/26/04 | 20.14 | NP | 0.00 | 10.05 | - |
| | 11/01/04 | 20.11 | NP | 0.00 | 10.08 | - |
| | 02/01/05 | 18.47 | NP | 0.00 | 11.72 | - |
| | 04/28/05 | 17.25 | Sheen | 0.00 | 12.94 | 0.20 |
| | 07/25/05 | 18.89 | NP | 0.00 | 11.30 | - |
| MW-23 (37.00) | 07/26/04 | 13.83 | NP | 0.00 | 23.17 | - |
| | 11/01/04 | 14.15 | NP | 0.00 | 22.85 | - |
| | 02/01/05 | 13.09 | 13.08 | 0.01 | 23.92 | 0.10 |
| | 04/28/05 | 12.78 | 12.51 | 0.27 | 24.44 | 0.20 |
| | 07/25/05 | - | 12.88 | - | - | 0.20 |

TABLE 1
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

| Well Identification (TOC) | Date Gauged | Depth to Water (ft) | Depth to SPH (ft) | SPH Thickness (ft) | Groundwater Elevation ¹ (ft) | Recovered by Quarter (gallons) |
|------------------------------|--|---|--|--|---|-----------------------------------|
| MW-24 (38.06) | 07/26/04 11/01/04 02/01/05 04/28/05 07/25/05 | 10.18 9.22 8.85 8.51 - | NP Sheen NP NP 8.89 | 0.00 0.00 0.00 0.00 - | 27.88 28.84 29.21 29.55 - | - |
| MW-25 (33.20) | 04/28/05 07/25/05 | 18.38 18.78 | NP NP | 0.00 0.00 | 14.82 14.42 | - |
| MW-26 (37.32) | 04/28/05 07/25/05 | 21.95 22.48 | NP NP | 0.00 0.00 | 15.37 14.84 | - |
| MW-27 (36.51) | 04/28/05 07/25/05 | 18.65 18.60 | NP NP | 0.00 0.00 | 17.86 17.91 | - |
| MW-28 (31.31) | 04/28/05 07/25/05 | 17.29 17.98 | Sheen NP | 0.00 0.00 | 14.02 13.33 | - |
| P-1 (37.89) | 01/31/02 04/24/02 07/30/02 | - 19.31 19.72 | NP NP NP | 0.00 0.00 0.00 | - 18.58 18.17 | - |
| | 10/29/02 | | | Unable to Locate | | |
| | 01/28/03 04/29/03 07/29/03 10/28/03 01/29/04 04/28/04 07/26/04 11/01/04 02/01/05 04/28/05 07/25/05 | 19.67 17.71 19.94 19.97 17.36 19.95 20.20 19.60 Dry 19.80 19.68 | NP NP NP NP NP NP NP NP NP NP | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 18.22 20.18 17.95 17.92 20.53 17.94 17.69 18.29 - 18.09 18.21 | - |
| P-2 (36.54) | 01/31/02 04/24/02 07/30/02 10/29/02 01/28/03 04/29/03 07/29/03 10/28/03 01/29/04 04/28/04 07/26/04 11/01/04 02/01/05 04/28/05 07/25/05 | - 13.99 15.55 16.52 14.66 12.98 15.10 11.15 13.00 14.17 15.70 16.27 15.65 15.09 15.00 | NP NP NP NP NP NP NP NP NP NP NP NP NP NP | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | - 22.55 20.99 20.02 21.88 23.56 21.44 25.39 23.54 22.37 20.84 20.27 20.89 21.45 21.54 | - |

TABLE 1
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

| Well Identification (TOC) | Date Gauged | Depth to Water (ft) | Depth to SPH (ft) | SPH Thickness (ft) | Groundwater Elevation ¹ (ft) | Recovered by Quarter (gallons) |
|------------------------------|-------------|------------------------|----------------------|-----------------------|--|-----------------------------------|
| P-3 (33.53) | 01/29/02 | 16.93 | NP | 0.00 | 16.60 | - |
| | 04/24/02 | 17.58 | NP | 0.00 | 15.95 | - |
| | 07/30/02 | 18.90 | NP | 0.00 | 14.63 | - |
| | 10/29/02 | 19.68 | NP | 0.00 | 13.85 | - |
| | 01/28/03 | 18.16 | NP | 0.00 | 15.37 | - |
| | 04/29/03 | 17.29 | NP | 0.00 | 16.24 | - |
| | 07/29/03 | 18.81 | NP | 0.00 | 14.72 | - |
| | 10/28/03 | 19.26 | NP | 0.00 | 14.27 | - |
| | 01/29/04 | 17.24 | NP | 0.00 | 16.29 | - |
| | 04/28/04 | 18.21 | NP | 0.00 | 15.32 | - |
| | 07/26/04 | 19.01 | NP | 0.00 | 14.52 | - |
| | 11/01/04 | NM | NM | NM | NM | - |
| | 02/01/05 | 18.83 | NP | 0.00 | 14.70 | - |
| | 04/28/05 | 18.49 | NP | 0.00 | 15.04 | - |
| | 07/25/05 | 18.52 | NP | 0.00 | 15.01 | - |
| P-4 (31.75) | 01/29/02 | 16.60 | NP | 0.00 | 15.15 | - |
| | 04/24/02 | 15.91 | NP | 0.00 | 15.84 | - |
| | 07/30/02 | 17.18 | 16.90 | 0.28 | 14.79 | - |
| | 10/29/02 | 22.26 | NP | 0.00 | DRY | - |
| | 01/28/03 | 18.08 | 17.98 | 0.10 | 13.75 | - |
| | 04/29/03 | 15.55 | NP | 0.00 | 16.20 | - |
| | 07/29/03 | 18.73 | NP | 0.00 | 13.02 | - |
| | 10/28/03 | 19.48 | 19.40 | 0.08 | 12.33 | - |
| | 01/29/04 | 16.99 | 16.87 | 0.12 | 14.86 | - |
| | 04/28/04 | 17.94 | NP | 0.00 | 13.81 | - |
| | 07/26/04 | 19.43 | NP | 0.00 | 12.32 | - |
| | 11/01/04 | 19.98 | 19.97 | 0.01 | 11.78 | - |
| | 02/01/05 | - | 19.11 | - | - | - |
| | 04/28/05 | - | 21.81 | - | - | - |
| | 07/25/05 | - | 19.05 | - | - | - |
| P-5 (29.75) | 01/29/02 | 14.41 | NP | 0.00 | 15.34 | - |
| | 04/24/02 | 14.40 | NP | 0.00 | 15.35 | - |
| | 07/30/02 | 16.35 | 16.31 | 0.04 | 13.43 | - |
| | 10/29/02 | 18.09 | 18.17 | 0.08 | 11.72 | - |
| | 01/28/03 | 14.96 | 14.95 | 0.01 | 14.80 | - |
| | 04/29/03 | 14.61 | 14.60 | 0.01 | 15.15 | - |
| | 07/29/03 | 19.98 | 17.96 | 2.02 | 11.39 | - |
| | 10/28/03 | 18.48 | 18.15 | 0.33 | 11.53 | - |
| | 01/29/04 | 14.00 | NP | 0.00 | 15.75 | - |
| | 04/28/04 | 16.73 | NP | 0.00 | 13.02 | - |
| | 07/26/04 | - | - | - | - | - |
| | 11/01/04 | 18.39 | 17.43 | 0.96 | 12.13 | - |
| | 02/01/05 | 17.22 | 16.99 | 0.23 | 12.71 | - |

TABLE 1
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

| Well Identification (TOC) | Date Gauged | Depth to Water (ft) | Depth to SPH (ft) | SPH Thickness (ft) | Groundwater Elevation ¹ (ft) | Recovered by Quarter (gallons) |
|------------------------------|-------------|------------------------|----------------------|-----------------------|--|-----------------------------------|
| P-5A | 04/28/05 | 17.14 | NP | 0.00 | 12.71 | - |
| (29.85) | 07/25/05 | 18.78 | Sheen | 0.00 | 11.07 | - |
| RW-1 | 10/30/02 | 19.36 | NP | 0.00 | 9.30 | 0.65 |
| (28.66) | 11/26/02* | 18.92 | 18.58 | 0.34 | 10.01 | - |
| | 01/28/03 | 16.19 | 15.94 | 0.25 | 12.67 | 1.65 |
| | 04/29/03 | 14.13 | 13.67 | 0.46 | 14.90 | 1.05 |
| | 07/29/03 | 18.70 | 17.04 | 1.66 | 11.29 | 9.00 |
| | 10/28/03 | 18.70 | 17.80 | 0.90 | 10.68 | - |
| | 01/29/04 | 19.20 | 13.10 | 6.10 | 14.34 | 27.00 |
| | 07/26/04 | 18.20 | 17.58 | 0.62 | 10.96 | IRAM Sys |
| | 11/01/04 | 26.35 | 23.88 | 2.47 | 4.29 | IRAM Sys |
| | 02/01/05 | NM | 21.60 | NM | NM | IRAM Sys |
| (25.85) | 04/28/05 | NM | 21.30 | NM | NM | IRAM Sys |
| | 07/25/05 | - | 14.69 | - | - | IRAM Sys |
| RW-2 | 10/30/02 | 19.48 | NP | 0.00 | 9.49 | 0.90 |
| (28.97) | 11/26/02* | 18.93 | 18.82 | 0.11 | 10.13 | - |
| | 01/28/03 | 19.77 | 15.86 | 3.91 | 12.33 | 17.25 |
| | 04/29/03 | 17.36 | 13.73 | 3.63 | 14.51 | 6.75 |
| | 07/29/03 | 19.54 | 17.23 | 2.31 | 11.28 | 9.00 |
| | 10/28/03 | 18.47 | 18.23 | 0.24 | 10.69 | - |
| | 01/29/04 | 19.37 | 13.57 | 5.80 | 14.24 | 33.00 |
| | 07/26/04 | - | 17.00 | - | - | IRAM Sys |
| | 11/01/04 | 22.17 | 20.35 | 1.82 | 8.26 | IRAM Sys |
| | 02/01/05 | NM | 19.18 | NM | NM | IRAM Sys |
| (26.04) | 04/28/05 | NM | 19.11 | NM | NM | IRAM Sys |
| | 07/25/05 | - | 24.75 | - | - | IRAM Sys |
| RW-3 | 10/30/02 | 22.11 | 19.50 | 2.61 | 9.21 | 13.50 |
| (29.23) | 11/26/02* | 22.96 | 18.81 | 4.15 | 9.59 | - |
| | 01/28/03 | 22.58 | 15.98 | 6.60 | 11.93 | 30.00 |
| | 04/29/03 | 18.11 | 13.97 | 4.14 | 14.43 | 18.50 |
| | 07/29/03 | 19.63 | 16.66 | 2.97 | 11.98 | 8.25 |
| | 10/28/03 | 19.03 | 18.49 | 0.54 | 10.63 | - |
| | 01/29/04 | 18.33 | 14.03 | 4.30 | 14.34 | 29.00 |
| | 04/28/04 | 22.87 | 16.6 | 6.27 | 10.62 | - |
| | 07/26/04 | 24.44 | 17.34 | 7.10 | 9.71 | IRAM Sys |
| | 11/01/04 | 20.68 | 20.37 | 0.31 | 8.04 | IRAM Sys |
| | 02/01/05 | 20.38 | 19.4 | 0.98 | 8.87 | IRAM Sys |
| (26.28) | 04/28/05 | NM | 18.90 | NM | NM | IRAM Sys |
| | 07/25/05 | - | 24.32 | - | - | IRAM Sys |

TABLE 1
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

| Well Identification (TOC) | Date Gauged | Depth to Water (ft) | SPH Thickness (ft) | Groundwater Elevation ¹ (ft) | Recovered by Quarter (gallons) |
|------------------------------|-------------|------------------------|--------------------------|--|--------------------------------------|
| RW-4 (29.69) | 10/30/02 | 20.27 | NP | 0.00 | 9.42 |
| | 01/28/03 | 18.00 | 16.58 | 1.42 | 12.83 |
| | 04/29/03 | 16.96 | 14.59 | 2.37 | 14.63 |
| | 07/29/03 | 18.76 | 18.50 | 0.26 | 11.14 |
| | 10/28/03 | 18.98 | NP | 0.00 | 10.71 |
| | 01/29/04 | 17.90 | 14.07 | 3.83 | 14.85 |
| | 04/28/04 | 18.56 | 17.41 | 1.15 | 10.83 |
| | 07/26/04 | 17.50 | 17.2 | 0.30 | 11.21 |
| | 11/01/04 | 22.27 | 21.98 | 0.29 | 6.43 |
| | 02/01/05 | 21.55 | 21.2 | 0.35 | 7.20 |
| (26.82) | 04/28/05 | 21.02 | 20.51 | 0.51 | 6.21 |
| | 07/25/05 | - | 25.83 | - | IRAM Sys |
| RW-5 (29.83) | 10/30/02 | 20.32 | NP | 0.00 | 9.51 |
| | 01/28/03 | 15.95 | NP | Sheen | 13.88 |
| | 04/29/03 | 15.31 | NP | Sheen | 14.52 |
| | 07/29/03 | 19.17 | 19.10 | 0.07 | 10.72 |
| | 10/28/03 | 19.38 | 19.36 | 0.02 | 10.47 |
| | 01/29/04 | 15.41 | 14.50 | 0.91 | 15.15 |
| | 04/28/04 | 18.45 | 17.80 | 0.65 | 10.54 |
| | 07/26/04 | 17.52 | 17.50 | 0.02 | 10.97 |
| | 11/01/04 | 20.52 | 20.43 | 0.09 | 8.02 |
| | 02/01/05 | 20.91 | 19.35 | 1.56 | 8.81 |
| (26.81) | 04/28/05 | NM | 18.65 | NM | IRAM Sys |
| | 07/25/05 | - | 16.55 | - | IRAM Sys |

NOTES:

NP = No Measurable Product

¹ = Elevation relative to 1988 North American Vertical Datum (NAVD)

² = Not Sampled. Sheen observed during gauging. SPH measured after purging at 0.05 ft. thickness.

- = Not measured, not analyzed, not sampled or not applicable

Groundwater elevations corrected for product thickness using formula:

GWE = TOC - DTW - (0.8 x (DTW - DTP)) where 0.8 is the density of the SPH

* = Additional RI Sampling

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH BTEX
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

| Sample ID | Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylene (total) (µg/L) | Naphthalene (µg/L) | Gasoline (µg/L) | Diesel (µg/L) | Heavy Oil (µg/L) |
|-----------|-------------|----------------|----------------|---------------------|-----------------------|--------------------|-----------------|----------------|------------------|
| MW-1 | 02/01/02 | 2.50 U | 2.50 U | 2.50 U | 5.00 U | 31.5 | 2,610 | NA | NA |
| | 11/26/02* | 1.00 U | 1.00 U | 1.00 U | 3.00 U | 2.00 U | 797 | 30,000 | 3,700 |
| | 01/29/03 | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 20.0 M | 3,610 | 118,000 | 13,700 |
| | 04/30/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 2.00 M | 1,390 | 129,000 | 14,100 |
| MW-2 | 11/26/02* | 1.00 U | 1.00 U | 1.00 U | 3.00 U | 23.3 | 1,350 | 148,000 | 14,100 |
| MW-3 | 11/26/02* | 1.00 U | 1.00 U | 1.00 U | 3.00 U | 2.31 | 1,280 | 198,000 | 500 U |
| MW-4 | 02/01/02 | 0.500 U | 0.500 U | 0.500 U | 1.00 M | 2.00 U | 884 | NA | NA |
| | 05/01/02 | 2.50 U | 2.50 U | 2.50 U | 5.00 U | 31.5 J | 2,610 | NA | NA |
| | 07/29/02 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.500 M | 169 | 12,600 | 500 M |
| | 10/30/02 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 3.50 M | 479 | 33,000 | 500 M |
| DUP | 10/30/02 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 2.00 M | 535 | 2,480 | 500 M |
| | 01/29/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 1.20 M | 326 | 16,900 | 500 M |
| | 04/30/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 2.50 M | 119 | 10,800 | 500 M |
| | 07/29/03 | 0.500 M | 0.504 | 0.764 | 4.39 | NA | 125 | 50,100 | 2,500 M |
| | 10/28/03 | 0.500 M | 0.757 | 0.500 M | 2.51 | NA | 1,180 | 120,000 | 10,000 M |
| | 01/30/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 81.7 | 82,600 | 1,000 M |
| | 04/29/04 | 0.500 M | 0.986 | 0.500 M | 1.00 M | NA | 80.0 M | 16,900 | 500 M |
| | 07/26/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 150 | 17,400 | 500 M |
| | 11/01/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 193 | 16,500 | 2,500 M |
| | 02/02/05 | 0.500 M | 0.500 M | 0.500 M | 1.62 | NA | 2,060 | 300,000 | 500 M |
| | 04/28/05 | 0.500 M | 0.500 M | 0.792 | 5.34 | NA | 3,150 | 223,000 | 2,500 M |
| | 07/26/05 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 106 | 52,300 | 1,890 |
| DUP | 07/26/05 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 197 | 53,100 | 2,160 |
| MW-5 | 02/01/02 | 0.500 U | 0.500 U | 0.500 U | 1.00 U | 2.00 U | 80.0 U | NA | NA |
| | 04/24/02 | 0.500 U | 0.500 U | 0.500 U | 1.00 M | 2.00 U | 80.0 U | 250 U | 500 U |
| | 07/30/02 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.100 M | 50.0 M | NA | NA |
| | 01/28/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.100 M | 80.0 M | 563 | 500 M |
| | 04/30/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.200 M | 80.0 M | 472 | 500 M |
| | 01/29/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 713 | 500 M |
| | 04/28/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 905 | 500 M |
| MW-6 | 02/01/02 | 30.6 | 12 | 12.4 | 11.3 | 2.00 U | 2,270 | NA | NA |
| | 04/24/02 | 37.1 | 6.34 | 6.03 | 8.45 | 2.00 U | 2,140 | 250 U | 500 U |
| | 07/30/02 | 16.6 | 1.51 | 1.92 | 5.86 | 2.00 M | 1,730 | NA | NA |
| | 01/29/03 | 6.84 | 1.52 | 1.22 | 2.39 | 2.00 M | 1,800 | 250 M | 500 M |
| | 04/29/03 | 31.3 | 4.34 | 2.30 | 1.51 | 1.70 M | 2,080 | 250 M | 500 M |
| | 01/29/04 | 53.7 | 3.51 | 3.52 | 6.98 | NA | 2,610 | 1,350 | 500 M |
| DUP | 01/29/04 | 51.2 | 3.33 | 3.26 | 6.44 | NA | 2,350 | 1,220 | 500 M |
| | 04/28/04 | 53.8 | 4.63 | 1.25 | 3.22 | NA | 2,620 | 1,200 | 500 M |
| | 04/28/05 | 8.88 | 2.21 | 0.642 | 1.61 | NA | 718 | 1,340 | 500 M |

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH BTEX
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

| Sample ID | Sample Date | Benzene ($\mu\text{g/L}$) | Toluene ($\mu\text{g/L}$) | Ethyl-benzene ($\mu\text{g/L}$) | Xylene (total) ($\mu\text{g/L}$) | Naphthalene ($\mu\text{g/L}$) | Gasoline ($\mu\text{g/L}$) | Diesel ($\mu\text{g/L}$) | Heavy Oil ($\mu\text{g/L}$) |
|-----------|-------------|-----------------------------|-----------------------------|-----------------------------------|------------------------------------|---------------------------------|------------------------------|----------------------------|-------------------------------|
| MW-7 | 01/31/02 | 0.500 U | 0.500 U | 0.500 U | 1.00 U | 2.00 U | 80.0 U | NA | NA |
| | 04/24/02 | 0.500 U | 0.500 U | 0.500 U | 1.00 U | 2.00 U | 80.0 U | 250 U | 500 U |
| | 07/29/02 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.100 M | 50.0 M | 250 M | 500 M |
| | 10/29/02 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.100 M | 98.7 | 250 M | 500 M |
| | 01/28/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.100 M | 80.0 M | 250 M | 500 M |
| | 04/29/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.250 M | 80.0 M | 250 M | 500 M |
| | 07/29/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 10/28/03 | 0.500 M | 2.11 | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| DUP | 10/28/03 | 0.500 M | 1.18 | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 01/29/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 04/28/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 07/26/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 11/01/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 02/01/05 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 04/28/05 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 07/26/05 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| MW-8 | 02/01/02 | 10.8 | 10 | 22.3 | 8.31 | 4.92 | 2,350 | NA | NA |
| | 04/25/02 | 2.85 | 4.45 | 13.4 | 4.52 | 7.64 | 1,190 | 250 U | 500 U |
| | 07/29/02 | 10.2 | 4.02 | 27.8 | 14.8 | 41.0 | 1,900 | 3,340 | 500 M |
| | 10/30/02 | 1.88 | 0.691 | 3.89 | 9.86 | 0.772 | 764 | 1,170 | 500 M |
| | 01/29/03 | 15.8 | 4.80 | 27.6 | 8.76 | 5.89 | 2,340 | 3,390 | 500 M |
| | 04/30/03 | 11.8 | 2.11 | 30.1 | 10.4 | 23.1 | 1,810 | 2,250 | 500 M |
| | 07/29/03 | 8.38 | 2.50 | 5.23 | 5.80 | NA | 887 | 961 | 500 M |
| | 10/28/03 | 0.927 | 1.97 | 1.25 | 4.18 | NA | 623 | 571 | 500 M |
| | 01/30/04 | 8.34 | 1.73 | 29.0 | 19.4 | NA | 1,920 | 1,810 | 500 M |
| | 04/29/04 | 2.69 | 0.500 M | 1.62 | 1.00 M | NA | 618 | 1,020 | 500 M |
| | 07/26/04 | 3.24 | 1.73 | 1.09 | 2.45 | NA | 376 | 1,300 | 500 M |
| | 11/01/04 | 1.30 | 0.500 M | 2.45 | 1.00 M | NA | 391 | 422 | 500 M |
| | 02/02/05 | -0.500 M | 0.637 | 0.790 | 1.00 M | NA | 317 | 693 | 500 M |
| | 04/29/05 | 1.86 | 0.701 | 0.500 M | 2.53 | NA | 421 | 1,160 | 500 M |
| | 07/26/05 | -0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 226 | 827 | 500 M |
| MW-9 | 02/01/02 | 357 | 4.48 | 2.50 M | 5.00 M | 10.0 U | 1,730 | NA | NA |
| | 04/25/02 | 312 | 6.84 | 5.47 | 9.44 | 10.0 U | 1,360 | 250 U | 500 U |
| | 07/29/02 | 727 | 7.44 | 6.54 | 12.2 | 1.00 M | 2,850 | 250 M | 500 M |
| | 10/30/02 | 511 | 11.4 | 6.14 | 10.0 M | 1.00 M | 1,420 | 486 | 500 M |
| | 01/29/03 | 193 | 2.66 | 2.50 M | 5.00 M | 0.500 M | 1,390 | 402 | 500 M |
| | 04/30/03 | 663 | 9.36 | 11.6 | 11.1 | 2.30 M | 3,440 | 250 M | 500 M |
| | 07/30/03 | 519 | 10.8 | 8.51 | 17.3 | NA | 2,060 | 457 | 500 M |
| | 10/29/03 | 32.6 | 0.576 | 4.94 | 1.00 M | NA | 1,790 | 680 | 500 M |
| | 01/30/04 | 49.0 | 7.30 | 6.52 | 11.8 | NA | 1,970 | 693 | 500 M |
| | 04/29/04 | 792 | 13.8 | 16.9 | 17.6 | NA | 3,100 | 903 | 500 M |
| | 07/26/04 | 850 | 13.8 | 7.77 | 18.3 | NA | 3,800 | 1,600 | 601 |
| | 11/01/04 | 423 | 8.08 | 2.50 M | 8.36 | NA | 1,870 | 471 | 500 M |
| | 02/02/05 | 502 | 9.58 | 2.01 | 12.2 | NA | 2,660 | 1,440 | 500 M |
| | 04/29/05 | 436 | 8.18 | 2.50 M | 10.9 | NA | 1,960 | 1,400 | 500 M |
| | 07/26/05 | 420 | 9.18 | 2.50 M | 12.5 | NA | 1,870 | 3,440 | 500 M |
| MW-10 | 02/01/02 | 15.5 | 7.7 | 6.97 | 5.89 | 10.0 M | 3,590 | NA | NA |
| DUP | 02/01/02 | 18 | 8.7 | 7.83 | 6.7 | 10.0 U | 4,010 | NA | NA |
| | 04/25/02 | 16.7 | 8.48 | 7.65 | 9.13 | 4.00 U | 4,470 | 3,850 | 500 U |
| | 11/27/02* | 3.17 | 2.41 | 1.00 U | 2.49 | 2.00 U | 3,630 | 15,200 | 500 U |
| | 04/30/03 | 15.4 | 9.14 | 6.63 | 5.00 M | 100 M | 3,630 | 483,000 | 5,000 M |
| | 07/30/03 | 9.23 | 6.60 | 5.95 | 8.52 | NA | 3,320 | 99,100 | 10,000 M |
| | 10/29/03 | 10.6 | 5.88 | 4.94 | 7.06 | NA | 4,120 | 146,000 | 2,500 M |

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH BTEX
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

| Sample ID | Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Xylene (total) (µg/L) | Naphthalene (µg/L) | Gasoline (µg/L) | Diesel (µg/L) | Heavy Oil (µg/L) |
|-----------|-------------|----------------|----------------|----------------------|-----------------------|--------------------|-----------------|----------------|------------------|
| MW-12 | 01/31/02 | 0.500 U | 0.500 U | 0.500 U | 1.00 U | 2.00 U | 1,320 | NA | NA |
| | 04/25/02 | 1.00 U | 1.00 U | 1.00 U | 2.00 U | 4.00 U | 1,970 | 4,030 | 500 U |
| | 07/29/02 | 0.721 | 0.526 | 0.500 M | 5.60 | 2.50 M | 1,110 | 11,100 | 500 M |
| DUP | 07/29/02 | 0.729 | 0.534 | 0.500 M | 5.68 | 5.00 M | 1,140 | 5,180 | 500 U |
| | 10/29/02 | 1.00 M | 6.61 | 13.6 | 3.11 | 2.50 M | 3,630 | 5,540 | 500 M |
| | 01/28/03 | 0.500 M | 0.534 | 0.500 M | 1.00 M | 3.00 M | 1,250 | 110,000 | 10000 M |
| | 04/29/03 | 0.500 M | 0.547 | 0.500 M | 2.55 | 1.50 M | 740 | 14,500 | 500 M |
| | 07/29/03 | 0.940 | 0.717 | 1.50 | 3.57 | NA | 832 | 2,000 | 500 M |
| | 10/28/03 | 0.933 | 1.51 | 1.31 | 2.65 | NA | 1,110 | 25,300 | 500 M |
| | 01/29/04 | 2.05 | 0.500 M | 1.17 | 6.78 | NA | 835 | 12,700 | 500 M |
| | 04/29/04 | 0.500 M | 0.500 M | 0.839 | 1.79 | NA | 669 | 8,030 | 500 M |
| | 07/26/04 | 1.17 | 1.03 | 2.69 | 9.47 | NA | 1,720 | 12,500 | 500 M |
| | 11/01/04 | 0.500 M | 4.80 | 1.03 | 4.53 | NA | 1,330 | 37,200 | 2,500 M |
| | 02/02/05 | 1.29 | 0.536 | 1.39 | 5.96 | NA | 1,480 | 27,700 | 500 M |
| | 04/28/05 | 1.06 | 0.815 | 1.07 | 4.26 | NA | 682 | 8,630 | 598 |
| | 07/26/05 | 0.977 | 0.500 M | 0.842 | 3.19 | NA | 454 | 6,770 | 556 |
| MW-13 | 01/31/02 | 109 | 6.74 | 8.9 | 5.00 M | 10.0 U | 6,150 | NA | NA |
| DUP | 01/31/02 | 102 | 6.86 | 8.7 | 5.00 M | 10.0 U | 6,110 | NA | NA |
| | 04/25/02 | 48.5 | 7.56 | 9.14 | 5.00 U | 10.0 U | 5,700 | 250 U | 500 U |
| DUP | 04/25/02 | 51.8 | 8.62 | 8.76 | 5.00 U | 10.0 U | 5,720 | 250 U | 500 U |
| | 07/29/02 | 2.63 | 1.6 | 2.88 | 7.76 | 0.100 M | 3,330 | 2,690 | 500 M |
| | 10/29/02 | 4.68 | 3.35 | 2.38 | 6.37 | 4.00 M | 2,320 | 2,180 | 762 |
| DUP | 10/29/02 | 5.82 | 3.10 | 2.45 | 5.89 | 3.00 M | 2,350 | 2,020 | 1,000 |
| | 01/28/03 | 2.71 | 3.22 | 2.56 | 6.52 | 1.20 M | 2,220 | 2,230 | 500 M |
| DUP | 01/28/03 | 2.35 | 3.05 | 2.51 | 6.26 | 1.30 M | 2,480 | 1,880 | 500 M |
| | 04/29/03 | 107 | 3.56 | 5.72 | 5.00 M | 2.50 M | 6,160 | 833 M | 1670 M |
| | 07/29/03 | 3.23 | 2.48 | 1.84 | 4.91 | NA | 2,130 | 546 | 500 M |
| | 10/28/03 | 2.18 | 3.90 | 1.50 | 4.43 | NA | 2,210 | 1,780 | 500 M |
| | 01/29/04 | 16.8 | 1.32 | 4.19 | 7.76 | NA | 3,390 | 3,240 | 500 M |
| | 04/28/04 | 1.86 | 1.84 | 1.11 | 3.68 | NA | 2,570 | 1,940 | 500 M |
| | 07/26/04 | 1.21 | 0.768 | 1.97 | 5.05 | NA | 1,580 | 2,020 | 825 |
| DUP | 07/26/04 | 2.52 | 1.72 | 2.10 | 6.35 | NA | 2,010 | 2,000 | 899 |
| | 11/01/04 | 2.71 | 0.500 M | 1.62 | 1.00 M | NA | 1,910 | 507 | 500 M |
| | 02/01/05 | 1.77 | 0.953 | 1.27 | 4.49 | NA | 1,380 | 2,640 | 500 M |
| DUP | 02/01/05 | 1.75 | 1.09 | 1.37 | 2.47 | NA | 1,550 | 2,370 | 500 M |
| | 04/28/05 | 2.25 | 1.33 | 1.15 | 4.79 | NA | 1,340 | 2,650 | 500 M |
| | 07/26/05 | 2.32 | 0.662 | 1.31 | 5.09 | NA | 995 | 2,720 | 500 M |
| MW-14 | 01/31/02 | 0.500 U | 0.500 U | 0.500 U | 1.00 U | 2.00 U | 80.0 U | NA | NA |
| | 04/24/02 | 0.500 U | 0.500 U | 0.500 U | 1.00 U | 2.00 U | 80.0 M | 250 U | 500 U |
| | 07/30/02 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.100 M | 50.0 M | 305 M | 610 M |
| | 10/29/02 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.100 M | 80.0 M | 250 M | 500 M |
| | 01/29/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.100 M | 80.0 M | 250 M | 500 M |
| | 04/29/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.100 M | 160 | 250 M | 500 M |
| | 07/29/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 10/28/03 | 0.500 M | 0.792 | 0.500 M | 1.00 M | NA | 80.0 M | 287 M | 500 M |
| | 01/29/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 04/28/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 07/26/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 11/01/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 02/01/05 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 04/28/05 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 07/26/05 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH BTEX
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

| Sample ID | Sample Date | Benzene ($\mu\text{g/L}$) | Toluene ($\mu\text{g/L}$) | Ethyl-benzene ($\mu\text{g/L}$) | Xylene (total) ($\mu\text{g/L}$) | Naphthalene ($\mu\text{g/L}$) | Gasoline ($\mu\text{g/L}$) | Diesel ($\mu\text{g/L}$) | Heavy Oil ($\mu\text{g/L}$) |
|-----------|-------------|-----------------------------|-----------------------------|-----------------------------------|------------------------------------|---------------------------------|------------------------------|----------------------------|-------------------------------|
| MW-15 | 01/31/02 | 0.500 U | 0.500 U | 0.500 U | 1.00 U | 2.00 U | 80.0 U | NA | NA |
| | 04/24/02 | 0.500 U | 0.500 U | 0.500 U | 1.00 U | 2.00 U | 80.0 U | 250 U | 500 U |
| | 07/30/02 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.100 M | 50.0 M | 250 M | 500 M |
| | 10/29/02 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.100 M | 80.0 M | 250 M | 500 M |
| | 01/29/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.100 M | 80.0 M | 250 M | 500 M |
| | 04/29/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.137 | 80.0 M | 250 M | 500 M |
| DUP | 04/29/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.100 M | 80.0 M | 250 M | 500 M |
| | 07/29/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| DUP | 07/29/03 | 0.500 M | 0.785 | 0.500 M | 1.48 | NA | 80.0 M | 250 M | 500 M |
| | 10/28/03 | 0.500 M | 1.01 | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 01/29/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 04/28/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 07/26/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 286M | 571M |
| | 11/01/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 | 500 M |
| | 02/01/05 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 04/28/05 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 07/26/05 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| MW-16 | 02/01/02 | 49.1 | 12.6 | 4.42 | 7.61 | 10.0 M | 3,620 | NA | NA |
| | 04/25/02 | 46 | 14 | 2.50 U | 8.73 | 10.0 U | 3,570 | 4,040 | 1,050 |
| | 07/30/02 | 83.6 | 14.0 | 2.73 | 11.0 | 2.50 M | 1,920 | 4,740 | 1000 M |
| DUP | 07/30/02 | 79.3 | 14.4 | 3.31 | 13.0 | 2.50 M | 1,950 | 6,240 | 2,060 |
| | 11/27/02* | 79.9 | 11.3 | 1.00 U | 3.84 | 2.00 U | 2,000 | 2,660 | 1,160 |
| | 01/28/03 | 40.5 | 13.4 | 4.35 | 10.6 | 1.80 M | 2,930 | 30,400 | 17,600 |
| DUP | 01/28/03 | 34.2 | 10.3 | 2.50 | 10.9 | 2.20 M | 3,500 | 35,100 | 13,100 |
| | 04/29/03 | 43.7 | 13.0 | 3.06 | 8.68 | 2.00 M | 2,300 | 12,900 | 5,160 |
| | 07/29/03 | 65.7 | 10.1 | 2.91 | 6.98 | NA | 1,420 | 11,100 | 5,870 |
| | 10/28/03 | 77.9 | 12.8 | 2.16 | 7.95 | NA | 1,910 | 7,520 | 3,440 |
| | 04/28/04 | 26.5 | 8.74 | 1.28 | 5.73 | NA | 1,860 | 74,200 | 37,600 |
| DUP | 04/28/04 | 26.7 | 8.94 | 1.40 | 5.88 | NA | 1,780 | 50,200 | 21,700 |
| | 07/26/04 | 107 | 16.2 | 5.19 | 14.6 | NA | 2,890 | 28,100 | 15,400 |
| | 11/01/04 | 39.1 | 11.1 | 3.51 | 9.36 | NA | 2,440 | 15,100 | 8,500 |
| MW-17 | 01/31/02 | 0.500 U | 0.500 U | 0.500 U | 1.00 U | 2.00 U | 93.8 | NA | NA |
| | 04/24/02 | 0.500 U | 0.500 U | 0.500 U | 1.00 M | 2.00 M | 126 | 360 | 500 U |
| | 07/30/02 | 0.500 M | 0.500 M | 0.702 | 2.72 | 1.00 M | 199 | 352 | 500 M |
| | 10/30/02 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 1.00 M | 80.0 M | 250 M | 500 M |
| | 01/29/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.100 M | 80.0 M | 250 M | 500 M |
| | 04/29/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.300 M | 118 | 256 | 500 M |
| DUP | 04/29/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.350 M | 80.0 M | 250 M | 500 M |
| | 07/29/03 | 0.500 M | 0.749 | 0.500 M | 1.00 M | NA | 109 | 553 | 500 M |
| DUP | 07/29/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 452 | 500 M |
| | 10/28/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 324 | 500 M |
| | 01/29/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 04/28/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 07/26/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 423 | 500 M |
| | 11/01/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 272 | 500 M |
| | 02/01/05 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 04/28/05 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 07/26/05 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH BTEX
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

| Sample ID | Sample Date | Benzene ($\mu\text{g/L}$) | Toluene ($\mu\text{g/L}$) | Ethyl-benzene ($\mu\text{g/L}$) | Xylene (total) ($\mu\text{g/L}$) | Naphthalene ($\mu\text{g/L}$) | Gasoline ($\mu\text{g/L}$) | Diesel ($\mu\text{g/L}$) | Heavy Oil ($\mu\text{g/L}$) |
|------------|-------------|-----------------------------|-----------------------------|-----------------------------------|------------------------------------|---------------------------------|------------------------------|----------------------------|-------------------------------|
| MW-18 | 04/25/02 | 0.500 U | 0.500 U | 0.500 U | 1.00 U | 2.00 U | 80.0 U | 250 U | 500 U |
| DUP | 04/25/02 | 0.500 U | 0.500 U | 0.500 U | 1.00 U | 2.00 U | 80.0 M | 250 U | 500 U |
| | 07/29/02 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.100 M | 50.0 M | 250 M | 500 M |
| | 10/30/02 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.100 M | 80.0 M | 250 M | 500 M |
| | 01/29/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.100 M | 80.0 M | 250 M | 500 M |
| | 04/29/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.100 M | 80.0 M | 250 M | 500 M |
| | 07/30/03 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 10/29/03 | 0.500 M | 2.02 | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 01/30/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 04/28/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 07/26/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 11/01/04 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 02/01/05 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 04/28/05 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| | 07/26/05 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 80.0 M | 250 M | 500 M |
| MW-20 | 05/01/03 | 36.5 | 7.12 | 5.15 | 7.20 | 5.00 M | 3,460 | 5,850 | 500 M |
| | 07/30/03 | 45.7 | 7.59 | 8.15 | 8.07 | NA | 2,680 | 7,200 | 500 M |
| MW-21 | 05/01/03 | 3.15 | 4.92 | 2.92 | 3.51 | 3.00 M | 2,260 | 6,040 | 500 M |
| | 07/30/03 | 4.15 | 5.45 | 4.08 | 10.8 | NA | 3,730 | 4,830 | 500 M |
| MW-22 | 05/01/03 | 11.7 | 3.54 | 2.43 | 4.52 | 1.70 M | 1,330 | 2,570 | 500 M |
| | 07/30/03 | 10.4 | 7.04 | 1.67 | 7.30 | NA | 1,080 | 2,650 | 500 M |
| | 10/29/03 | 0.500 M | 1.18 | 0.500 M | 1.00 M | NA | 138 | 1,330 | 500 M |
| | 01/30/04 | 6.88 | 0.950 | 3.03 | 12.3 | NA | 2,550 | 2,130 | 500 M |
| | 04/29/04 | 13.7 | 3.56 | 1.81 | 4.68 | NA | 1,670 | 3,470 | 510 |
| | 07/26/04 | 0.817 | 5.20 | 1.59 | 5.75 | NA | 1,210 | 3,340 | 776 |
| | 11/01/04 | 0.956 | 0.500 M | 0.938 | 1.00 M | NA | 715 | 2,430 | 512 |
| | 02/02/05 | 2.23 | 1.72 | 2.18 | 8.02 | NA | 1,440 | 2,950 | 629 |
| | 07/26/05 | 2.38 | 1.54 | 1.80 | 7.63 | NA | 978 | 3,280 | 500 M |
| MW-23 | 07/26/04 | 0.844 | 2.96 | 3.25 | 9.65 | NA | 1,750 | 11,400 | 687 |
| | 11/01/04 | 1.34 | 2.07 | 2.84 | 8.28 | NA | 1,670 | 17,600 | 8,780 |
| DUP | 11/01/04 | 1.28 | 2.16 | 3.06 | 9.78 | NA | 1,930 | 4,770 | 2,600 |
| MW-24 | 07/26/04 | 0.976 | 1.19 | 2.40 | 10.0 | NA | 1,850 | 14,400 | 13,100 |
| | 11/01/04 | 0.500 M | 1.97 | 0.827 | 3.35 | NA | 1,190 | 11,000 | 9,640 |
| | 02/02/05 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 317 | 6,720 | 7,930 |
| | 04/28/05 | 0.500 M | 0.631 | 0.723 | 5.03 | NA | 854 | 26,400 | 25,800 |
| DUP | 04/28/05 | 0.500 M | 0.500 M | 0.500 M | 2.27 | NA | 429 | 26,700 | 22,700 |
| MW-25 | 04/28/05 | 1.66 | 1.19 | 1.71 | 12.1 | NA | 1,010 | 2,180 | 556 M |
| | 07/26/05 | 1.50 | 0.613 | 1.58 | 11.7 | NA | 749 | 2,110 | 500 M |
| MW-26 | 04/28/05 | 1.22 | 0.985 | 0.813 | 5.65 | NA | 676 | 1,870 | 500 M |
| | 07/26/05 | 0.860 | 0.843 | 0.541 | 3.72 | NA | 540 | 1,620 | 500 M |
| MW-28 | 04/28/05 | 23.8 | 2.67 | 3.46 | 11.0 | NA | 3,570 | 9,060 | 511 |
| | 07/26/05 | 39.0 | 3.86 | 4.14 | 8.74 | NA | 3,140 | 11,200 | 503 |
| RW-1 | 11/26/02* | 7.68 | 2.00 U | 16.1 | 15.5 | 145 | 3,930 | 998,000 | 45,000 |
| RW-2 | 11/26/02* | 30.3 | 1.00 U | 21.0 | 16.7 | 46.7 | 1,690 | 243,000 | 57,700 |
| RW-3 | 11/26/02* | 3.80 | 1.00 U | 7.51 | 3.00 U | 9.04 | 1,430 | 678,000 | 50000 U |
| Trip Blank | 04/24/02 | 0.500 U | 0.500 U | 0.500 U | 1.00 U | 2.00 U | 80.0 U | NA | NA |
| | 04/25/02 | 0.500 U | 0.500 U | 0.500 U | 1.00 U | 2.00 U | 80.0 U | NA | NA |
| | 07/29/02 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | 50.0 M | NA | NA |
| | 10/29/02 | 0.500 M | 0.500 M | 0.500 M | 1.00 M | NA | NA | NA | NA |

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH BTEX
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

| Sample ID | Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl- benzene (µg/L) | Xylene (total) (µg/L) | Naph- thalene (µg/L) | Gasoline (µg/L) | Diesel (µg/L) | Heavy Oil (µg/L) |
|--|----------------|-------------------|-------------------|-----------------------------|-----------------------------|----------------------------|--------------------|------------------|------------------------|
| NOTES: | | | | | | | | | |
| Gasoline Range Hydrocarbons analyzed by NW TPH-Gx Method | | | | | | | | | |
| Diesel and Heavy Oil Range Hydrocarbons analyzed by NW TPH-DX Method | | | | | | | | | |
| Benzene, Toluene, Ethylbenzene, Xylene, and Naphthalene (BTEX/N) analyzed by USEPA Method 8021B or 8260B | | | | | | | | | |
| µg/l = micrograms per liter | | | | | | | | | |
| Lab reported Diesel and Heavy Oil in mg/l | | | | | | | | | |
| NA = Not Analyzed | | | | | | | | | |
| J = Estimated Value | | | | | | | | | |
| U = Analyte included in the analysis but not detected above laboratory method detection limits (MDLs) | | | | | | | | | |
| M = Analyte included in the analysis but not detected above laboratory method reporting limits (MRLs) | | | | | | | | | |
| Bold Face Font = Analyte detected above the MRLs | | | | | | | | | |
| * = Additional RI Sampling | | | | | | | | | |

TABLE 3
GROUNDWATER ANALYTICAL PAHs
 Kinder Morgan Liquid Terminals LLC
 Linton Terminal
 Portland, Oregon

| Sample ID | Sample Date | Acenaphthene ($\mu\text{g/L}$) | Acenaphthylene ($\mu\text{g/L}$) | Anthracene ($\mu\text{g/L}$) | Benz(a)anthracene ($\mu\text{g/L}$) | Benz(a)pyrene ($\mu\text{g/L}$) | Benz(bifluoranthene) ($\mu\text{g/L}$) | Benz(ghi)perylene ($\mu\text{g/L}$) | Benz(k)fluoranthene ($\mu\text{g/L}$) | Chrysene ($\mu\text{g/L}$) | Dibenz(a,h)anthracene ($\mu\text{g/L}$) | Fluoranthene ($\mu\text{g/L}$) | Fluorene ($\mu\text{g/L}$) | Indeno(1,2,3-cd)pyrene ($\mu\text{g/L}$) | Naphthalene ($\mu\text{g/L}$) | Phenanthrene ($\mu\text{g/L}$) | Pyrene ($\mu\text{g/L}$) |
|-----------|--------------|-------------------------------------|---------------------------------------|-----------------------------------|--|--------------------------------------|---|--|--|---------------------------------|--|-------------------------------------|---------------------------------|---|------------------------------------|-------------------------------------|-------------------------------|
| MW-1 | 02/01/02 | 5.00 U | 2.50 U | 2.74 | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 M | 1.00 U | 0.500 U | 20.9 | 0.500 U | 12.5 U | 13.3 | 2.23 | |
| | 11/26/2002* | 2.26 | 0.500 U | 1.98 | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 1.00 U | 0.500 U | 13.8 | 0.500 U | 5.00 U | 11.0 | 1.48 | |
| | 01/29/03 | 10.0 M | 5.00 M | 10.8 | 0.284 | 0.394 | 0.322 | 0.200 M | 0.266 | 1.46 | 0.400 M | 5.00 M | 80.6 | 0.200 M | 20.0 M | 64.7 | 6.98 |
| | 04/30/03 | 2.74 | 1.00 M | 2.48 | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.00 M | 16.5 | 1.00 M | 2.00 M | 12.7 | 2.00 | |
| MW-2 | 11/26/2002* | 4.44 | 1.00 U | 2.72 | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 1.00 U | 2.00 U | 1.00 U | 11.6 | 14.8 | 1.00 U | 21.1 | 15.4 | 2.24 |
| MW-3 | 11/26/2002* | 10.0 U | 10.0 U | 3.99 | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 1.00 U | 0.500 U | 33.0 U | 0.500 U | 10.0 U | 22.1 | 2.98 | |
| MW-4 | 02/01/02 | 0.500 U | 0.100 U | 0.257 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 U | 2.32 | 0.100 U | 1.00 U | 0.725 | 0.17 | |
| | 04/25/02 | 0.500 U | 0.100 U | 0.368 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 U | 2.21 | 0.100 U | 0.500 U | 0.618 | 0.192 | |
| | 07/29/02 | 0.405 | 0.100 M | 0.500 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 1.75 | 0.100 M | 0.500 M | 0.500 M | 0.313 | |
| | 10/30/02 | 2.50 M | 0.500 M | 4.26 | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.500 M | 8.00 M | 0.500 M | 3.50 M | 7.64 | 3.09 | |
| DUP | 10/30/02 | 1.50 M | 0.500 M | 2.18 | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.5 | 4.36 | 0.500 M | 2.00 M | 3.60 | 1.61 | |
| | 01/29/03 | 0.800 M | 0.400 M | 0.860 | 0.400 M | 0.400 M | 0.400 M | 0.400 M | 0.400 M | 0.800 M | 0.400 M | 2.97 | 0.400 M | 1.20 M | 2.23 | 0.600 | |
| | 04/30/03 | 2.50 M | 2.50 M | 2.50 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 2.50 M | 4.88 | 0.100 M | 2.50 M | 2.74 | 0.774 | |
| | 07/29/03 | 1.00 M | 0.750 M | 1.79 | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.500 M | 5.12 | 0.500 M | 3.25 | 4.40 | 1.35 | |
| | 10/28/03 | 3.00 M | 2.00 M | 4.00 M | 2.00 M | 2.00 M | 2.00 M | 2.00 M | 2.00 M | 4.00 M | 2.00 M | 11.0 M | 2.00 M | 3.00 M | 8.86 | 4.00 | |
| | 01/30/04 | 3.00 M | 2.50 M | 5.90 | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.00 M | 11.5 M | 1.00 M | 4.50 M | 10.3 | 4.41 | |
| | 04/29/04 | 1.00 M | 0.750 M | 1.75 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.500 M | 4.04 | 0.500 M | 2.25 M | 2.50 M | 1.32 | |
| | 07/26/04 | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.00 M | 1.74 | 1.00 M | 1.50 M | 1.00 M | 1.00 M | |
| | 11/01/04 | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.00 M | 1.46 | 1.00 M | 1.00 M | 1.11 | 1.00 M | |
| | 2/2/2005** | 5.00 M | 5.00 M | 22.5 M | 5.00 M | 5.00 M | 5.00 M | 5.00 M | 5.00 M | 10.0 M | 5.00 M | 18.8 | 5.00 M | 5.00 M | 20.0 M | 8.18 | |
| | 3/25/2005*** | 1.50 M | 1.00 M | 1.50 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.00 M | 4.00 M | 1.00 M | 1.50 M | 4.63 | 1.26 | |
| | 04/28/05 | 6.50 M | 2.50 M | 31.5 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.50 M | 17.0 M | 1.00 M | 4.50 M | 16.0 M | 7.26 | |
| | 07/26/05 | 3.00 M | 3.00 M | 12.0 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 1.00 M | 12.0 M | 0.500 M | 5.00 M | 12.0 | 5.50 | |
| DUP | 07/26/05 | 5.00 M | 5.00 M | 21.2 M | 2.50 M | 2.50 M | 2.50 M | 2.50 M | 2.50 M | 5.00 M | 2.50 M | 20.0 M | 2.50 M | 6.25 M | 19.2 | 7.69 | |
| MW-5 | 02/01/02 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | |
| | 04/24/02 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 U | 0.100 U | 0.100 U | 0.100 M | 0.100 U | 0.100 U | |
| | 01/28/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 04/30/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | |
| | 01/29/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.150 M | 0.100 M | 0.100 M | |
| | 04/28/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.150 M | 0.100 M | 0.100 M | |
| MW-6 | 02/01/02 | 0.153 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 U | 0.131 | 0.100 U | 5.00 U | 0.225 | 0.100 U | |
| | 04/24/02 | 0.151 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 U | 0.101 | 0.100 U | 2.00 U | 0.214 | 0.100 U | |
| | 01/29/03 | 0.129 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.101 | 0.100 M | 2.00 M | 0.128 | 0.100 M | |
| | 04/29/03 | 0.107 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 | 0.100 M | 1.70 M | 0.110 | 0.100 M | |
| | 01/29/04 | 0.115 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.140 | 0.100 M | 1.95 M | 0.146 | 0.100 M | |
| DUP | 01/29/04 | 0.115 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.150 | 0.100 M | 1.35 M | 0.130 | 0.100 M | |
| | 04/28/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.104 | 0.100 M | 1.35 M | 0.110 | 0.100 M | |
| | 04/28/05 | 0.150 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.150 M | 0.100 M | 1.50 M | 0.100 M | 0.100 M | |

TABLE 3
GROUNDWATER ANALYTICAL PAHs
Kinder Morgan Liquid Terminals LLC
Linnton Terminal
Portland, Oregon

| Sample ID | Sample Date | Acenaphthene ($\mu\text{g/L}$) | Acenaphthylene ($\mu\text{g/L}$) | Anthracene ($\mu\text{g/L}$) | Benz(a)anthracene ($\mu\text{g/L}$) | Benz(a)pyrene ($\mu\text{g/L}$) | Benz(b)fluoranthene ($\mu\text{g/L}$) | Benz(ghi)perylene ($\mu\text{g/L}$) | Benz(k)floranthene ($\mu\text{g/L}$) | Chrysene ($\mu\text{g/L}$) | Dibenz(a,h)anthracene ($\mu\text{g/L}$) | Fluoranthene ($\mu\text{g/L}$) | Fluorene ($\mu\text{g/L}$) | Indeno(1,2,3-cd)pyrene ($\mu\text{g/L}$) | Naphthalene ($\mu\text{g/L}$) | Phenanthrene ($\mu\text{g/L}$) | Pyrene ($\mu\text{g/L}$) | |
|-----------|-------------|-------------------------------------|---------------------------------------|-----------------------------------|--|--------------------------------------|--|--|---|---------------------------------|--|-------------------------------------|---------------------------------|---|------------------------------------|-------------------------------------|-------------------------------|--|
| MW-7 | 01/31/02 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | | |
| | 04/24/02 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | |
| | 07/29/02 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 10/29/02 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 01/28/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 04/29/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.250 M | 0.100 M | 0.100 M | 0.100 M | |
| | 07/29/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 10/28/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| DUP | 10/28/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 01/29/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 04/26/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 07/26/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 11/01/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 2/1/2005** | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 04/28/05 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 07/26/05 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| MW-8 | 02/01/02 | 18.9 | 2.00 U | 0.759 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 1.03 | 12.4 | 0.100 U | 2.56 | 11.2 | 1.19 | |
| | 04/25/02 | 40.5 | 0.500 M | 0.608 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.139 | 0.200 U | 1.69 | 18.6 | 0.100 U | 8.36 | 7.73 | 1.72 | |
| | 07/29/02 | 57.1 | 0.100 M | 0.629 | 0.117 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.178 | 0.200 M | 1.36 | 22.3 | 0.100 M | 41.0 | 7.78 | 2.34 | |
| | 10/30/02 | 90.3 | 1.00 M | 1.31 | 0.568 | 0.723 | 0.529 | 0.675 | 0.500 M | 0.733 | 1.00 M | 2.65 | 43.4 | 0.500 M | 0.772 | 8.42 | 3.34 | |
| | 01/29/03 | 18.9 | 1.00 M | 0.429 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.697 | 9.84 | 0.100 M | 5.89 | 4.72 | 0.788 | | |
| | 04/30/03 | 27.1 | 5.00 M | 0.780 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.854 | 13.4 | 0.100 M | 23.1 | 4.21 | 1.30 | | |
| | 07/29/03 | 70.6 | 0.303 | 0.688 | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.208 | 0.400 M | 1.32 | 33.6 | 0.200 M | 2.94 | 10.0 | 1.73 | |
| | 10/28/03 | 51.7 | 0.250 M | 0.527 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.114 | 0.200 M | 0.917 | 26.7 | 0.100 M | 0.322 | 4.84 | 1.17 | |
| | 01/30/04 | 32.1 | 0.400 M | 0.618 | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.400 M | 0.777 | 13.3 | 0.200 M | 10.5 | 6.37 | 0.879 | | |
| | 04/29/04 | 58.5 | 0.300 M | 0.743 | 0.167 | 0.138 | 0.124 | 0.183 | 0.119 | 0.224 | 0.200 M | 1.43 | 25.9 | 0.128 | 2.00 M | 12.5 | 1.64 | |
| | 07/26/04 | 51.4 | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.06 | 26.8 | 1.00 M | 1.00 M | 3.67 | 1.09 | | |
| | 11/01/04 | 99.8 | 2.50 M | 1.15 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.716 | 50.6 | 0.100 M | 2.50 M | 8.63 | 0.871 | |
| | 2/2/2005** | 83.9 | 2.00 M | 1.85 | 0.105 | 0.141 | 0.117 | 0.145 | 0.0901 | 0.138 | 0.200 M | 1.17 | 49.5 | 0.104 | 0.550 M | 21.6 | 1.36 | |
| | 3/25/05*** | 84.6 | 1.00 M | 1.55 | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.26 | 55.3 | 1.00 M | 1.00 M | 20.7 | 1.43 | |
| | 04/29/05 | 58.5 | 1.00 M | 1.25 | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.18 | 27.3 | 1.00 M | 1.40 | 11.3 | 1.24 | |
| | 07/26/05 | 71.0 | 1.00 M | 1.51 | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.18 | 39.7 | 1.00 M | 1.00 M | 12.7 | 1.19 | |

TABLE 3
GROUNDWATER ANALYTICAL PAHs
Kinder Morgan Liquid Terminals LLC
Linnton Terminal
Portland, Oregon

| Sample ID | Sample Date | Aceanaphthene ($\mu\text{g/L}$) | Aceanaphthylene ($\mu\text{g/L}$) | Anthracene ($\mu\text{g/L}$) | Benz(a)anthracene ($\mu\text{g/L}$) | Benz(a/p)yrene ($\mu\text{g/L}$) | Benz(b)fluoranthene ($\mu\text{g/L}$) | Benz(g/h)perylene ($\mu\text{g/L}$) | Benz(k)fluoranthene ($\mu\text{g/L}$) | Chrysene ($\mu\text{g/L}$) | Dibenz(a,h)anthracene ($\mu\text{g/L}$) | Fluoranthene ($\mu\text{g/L}$) | Fluorene ($\mu\text{g/L}$) | Indeno(1,2,3-cd)pyrene ($\mu\text{g/L}$) | Naphthalene ($\mu\text{g/L}$) | Phenanthrene ($\mu\text{g/L}$) | Pyrene ($\mu\text{g/L}$) |
|-----------|-------------|--------------------------------------|--|-----------------------------------|--|---------------------------------------|--|--|--|---------------------------------|--|-------------------------------------|---------------------------------|---|------------------------------------|-------------------------------------|-------------------------------|
| MW-9 | 02/01/02 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 U | 0.100 U | 0.100 U | 0.500 U | 0.100 U | 0.100 M | |
| | 04/25/02 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 U | 0.100 U | 0.100 U | 1.00 U | 0.100 U | 0.100 U | |
| | 07/29/02 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 1.00 M | 0.100 M | 0.100 M | |
| | 10/30/02 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 1.00 M | 0.100 M | 0.100 M | |
| | 01/29/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.500 M | 0.100 M | 0.100 M | |
| | 04/30/03 | 0.112 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 2.30 M | 0.100 M | 0.100 M | |
| | 07/30/03 | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.400 M | 0.200 M | 0.200 M | 0.200 M | 2.00 M | 0.200 M | 0.200 M | |
| | 10/29/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.550 M | 0.100 M | 0.100 M | |
| | 01/30/04 | 0.116 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 1.65 M | 0.100 M | 0.100 M | |
| | 04/29/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 1.60 M | 0.100 M | 0.100 M | |
| | 07/26/04 | 0.114 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 3.50 M | 0.100 M | 0.100 M | |
| | 11/01/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 1.30 M | 0.100 M | 0.100 M | |
| | 2/2/2005** | 0.138 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 1.50 M | 0.100 M | 0.100 M | |
| | 04/28/05 | 0.143 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 1.75 M | 0.100 M | 0.100 M | |
| | 07/26/05 | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.400 M | 0.200 M | 0.200 M | 0.200 M | 1.60 M | 0.200 M | 0.200 M | |
| MW-10 | 02/01/02 | 7.81 | 0.100 U | 0.304 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 M | 0.200 U | 0.447 | 5.21 | 0.100 U | 5.00 U | 1.41 | 0.512 |
| DUP | 02/01/02 | 6.6 | 0.500 U | 0.228 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 M | 0.200 U | 0.387 | 4.18 | 0.100 U | 5.00 U | 0.657 | 0.451 |
| | 04/25/02 | 4.39 | 0.100 U | 0.367 | 0.123 | 0.108 | 0.100 M | 0.100 M | 0.100 M | 0.142 | 0.200 U | 0.784 | 3.21 | 0.100 M | 2.50 U | 0.903 | 0.933 |
| | 11/27/02* | 10.8 | 0.500 U | 1.56 | 0.500 U | 0.678 | 0.500 U | 0.695 | 0.500 U | 0.605 | 1.00 U | 1.77 | 10.7 | 0.500 U | 17.0 U | 9.62 | 2.20 |
| | 04/30/03 | 150 | 100 M | 23.1 | 12.0 | 10.6 | 6.80 | 5.00 | 7.08 | 14.9 | 2.00 M | 73.6 | 163 | 4.00 | 100 M | 176 | 76.1 |
| | 07/30/03 | 29.4 | 6.00 M | 5.16 | 3.40 | 4.07 | 3.09 | 3.24 | 2.00 M | 4.16 | 4.00 M | 10.5 | 26.6 | 2.18 | 32.0 M | 22.9 | 18.8 |
| | 10/29/03 | 18.8 | 3.50 M | 4.02 | 2.17 | 2.12 | 1.44 | 1.35 | 1.22 | 2.92 | 2.00 M | 9.98 | 19.6 | 1.00 M | 12.5 M | 20.6 | 14.3 |
| MW-12 | 01/31/02 | 2.05 | 0.500 U | 0.212 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 U | 4.34 | 0.100 U | 2.50 U | 4.11 | 0.100 M | |
| | 04/25/02 | 1.52 | 0.100 U | 0.349 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 M | 3.32 | 0.100 U | 1.00 U | 4.55 | 0.143 | |
| | 07/29/02 | 5.00 M | 0.500 M | 0.593 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.500 M | 5.33 | 0.100 M | 2.50 M | 7.29 | 0.260 | |
| DUP | 07/29/02 | 2.44 | 0.500 M | 0.655 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 4.67 | 0.100 M | 5.00 M | 5.23 | 0.293 | |
| | 10/29/02 | 1.72 | 0.100 M | 0.353 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.500 M | 3.89 | 0.100 M | 2.50 M | 5.97 | 0.123 | |
| | 01/28/03 | 3.33 | 0.500 M | 1.01 | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.500 M | 6.96 | 0.500 M | 3.00 M | 10.5 | 0.566 | |
| | 04/29/03 | 4.00 | 1.00 M | 1.18 | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.00 M | 9.45 | 1.00 M | 1.50 M | 10.9 | 1.00 M | |
| | 07/29/03 | 2.23 | 0.700 M | 0.254 | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.400 M | 0.200 M | 4.77 | 0.200 M | 2.20 M | 5.09 | 0.200 M | |
| | 10/28/03 | 6.26 | 1.60 M | 2.20 M | 0.400 M | 0.400 M | 0.400 M | 0.400 M | 0.400 M | 0.800 M | 0.452 | 10.1 | 0.400 M | 3.80 M | 18.0 | 1.29 | |
| | 01/29/04 | 3.36 | 1.50 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.00 M | 7.12 | 1.00 M | 3.00 M | 7.44 | 1.00 M | |
| | 04/29/04 | 1.98 | 0.800 M | 0.400 M | 0.400 M | 0.400 M | 0.400 M | 0.400 M | 0.400 M | 0.800 M | 0.400 M | 4.05 | 0.400 M | 0.400 M | 4.44 | 0.400 M | |
| | 07/26/04 | 3.11 | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.00 M | 6.40 | 1.00 M | 4.60 M | 5.93 | 1.00 M | |
| | 11/01/04 | 3.40 | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.00 M | 7.54 | 1.00 M | 1.00 M | 9.25 | 1.00 M | |
| | 2/2/2005** | 3.28 | 1.00 M | 0.627 | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.500 M | 6.21 | 0.500 M | 2.25 M | 8.20 | 0.364 | |
| | 04/28/05 | 2.83 | 0.800 M | 0.456 | 0.400 M | 0.400 M | 0.400 M | 0.400 M | 0.400 M | 0.800 M | 0.400 M | 5.92 | 0.400 M | 2.40 M | 6.90 | 0.400 M | |
| | 07/26/05 | 2.46 | 1.00 M | 1.00 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.500 M | 5.55 | 0.500 M | 2.00 M | 6.08 | 0.500 M | |

TABLE 3
GROUNDWATER ANALYTICAL PAHs
Kinder Morgan Liquid Terminals LLC
Linnton Terminal
Portland, Oregon

| Sample ID | Sample Date | Acenaphthene ($\mu\text{g/L}$) | Acenaphthylene ($\mu\text{g/L}$) | Anthracene ($\mu\text{g/L}$) | Benzofluoranthene ($\mu\text{g/L}$) | Benz(a)anthracene ($\mu\text{g/L}$) | Benz(b)fluoranthene ($\mu\text{g/L}$) | Benz(b)pyrene ($\mu\text{g/L}$) | Benz(g,h)perylene ($\mu\text{g/L}$) | Benz(k)fluoranthene ($\mu\text{g/L}$) | Chrysene ($\mu\text{g/L}$) | Dibenz(a,h)anthracene ($\mu\text{g/L}$) | Fluoranthene ($\mu\text{g/L}$) | Fluorene ($\mu\text{g/L}$) | Indeno(1,2,3-cd)pyrene ($\mu\text{g/L}$) | Naphthalene ($\mu\text{g/L}$) | Phenanthrene ($\mu\text{g/L}$) | Pyrene ($\mu\text{g/L}$) |
|-----------|-------------|-------------------------------------|---------------------------------------|-----------------------------------|--|--|--|--------------------------------------|--|--|---------------------------------|--|-------------------------------------|---------------------------------|---|------------------------------------|-------------------------------------|-------------------------------|
| MW-13 | 01/31/02 | 1.62 | 0.100 U | 0.16 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 M | 3.23 | 0.100 U | 5.00 U | 2.61 | 0.100 M | |
| DUP | 01/31/02 | 1.47 | 0.100 U | 0.144 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 M | 3.26 | 0.100 U | 2.00 U | 3.3 | 0.100 M | |
| | 04/25/02 | 1.25 | 0.100 U | 0.203 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 M | 2.75 | 0.100 U | 2.00 U | 2.63 | 0.100 M | |
| DUP | 04/25/02 | 1.36 | 0.100 U | 0.138 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 M | 2.73 | 0.100 U | 2.00 U | 2.74 | 0.100 M | |
| | 07/29/02 | 0.858 | 0.100 M | 0.172 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 1.90 | 0.100 M | 0.100 M | 3.61 | 0.157 | |
| DUP | 10/29/02 | 1.31 | 0.500 M | 1.00 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.500 M | 2.75 | 0.500 M | 4.00 M | 4.91 | 0.515 | |
| DUP | 10/29/02 | 0.802 | 0.100 M | 0.250 M | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 M | 1.68 | 0.100 M | 3.00 M | 2.42 | 0.121 | |
| | 01/26/03 | 0.598 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 1.15 | 0.100 M | 1.20 M | 1.13 | 0.100 M | |
| DUP | 01/28/03 | 0.710 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 1.40 | 0.100 M | 1.30 M | 1.11 | 0.100 M | |
| | 04/29/03 | 2.69 | 2.50 M | 0.223 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 5.57 | 0.100 M | 2.50 M | 2.84 | 0.120 | |
| | 07/29/03 | 0.806 | 0.300 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.400 M | 0.200 M | 1.69 | 0.200 M | 2.20 M | 2.86 | 0.200 M | |
| | 10/28/03 | 0.843 | 0.250 M | 0.112 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 1.69 | 0.100 M | 1.45 M | 2.42 | 0.100 M | |
| | 01/29/04 | 1.85 | 0.500 M | 0.236 | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.400 M | 0.200 M | 3.88 | 0.200 M | 4.40 M | 5.12 | 0.200 M | |
| | 04/28/04 | 0.991 | 0.300 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 1.92 | 0.100 M | 4.00 M | 3.42 | 0.100 M | |
| | 07/26/04 | 2.50 | 2.50 M | 0.211 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 2.50 | 0.100 M | 4.25 M | 3.73 | 0.100 M | |
| DUP | 07/26/04 | 2.50 | 2.50 M | 0.181 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 2.50 | 0.100 M | 4.00 M | 3.48 | 0.100 M | |
| | 11/01/04 | 0.950 | 0.100 M | 0.152 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 2.06 | 0.100 M | 2.50 M | 2.85 | 0.164 | |
| | 2/1/2005** | 0.748 | 0.300 M | 0.139 | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.400 M | 0.200 M | 1.39 | 0.200 M | 1.50 M | 2.17 | 0.105 | |
| | 04/28/05 | 0.872 | 0.400 M | 0.400 M | 0.400 M | 0.400 M | 0.400 M | 0.400 M | 0.400 M | 0.400 M | 0.600 M | 0.400 M | 1.76 | 0.400 M | 1.80 M | 2.63 | 0.400 M | |
| | 07/26/05 | 0.800 | 0.300 M | 0.700 | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.400 M | 0.200 M | 0.217 | 0.200 M | 1.60 M | 3.02 | 0.318 | |
| MW-14 | 01/31/02 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 M | |
| | 04/24/02 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | |
| | 07/30/02 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 10/29/02 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 01/29/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 04/29/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 07/29/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 10/28/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 01/29/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 04/28/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 07/26/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 11/01/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 2/1/2005** | 0.100 | 0.100 M | 0.100 | 0.100 M | 0.100 | 0.100 M | 0.100 | 0.100 M | 0.100 | 0.200 M | 0.100 | 0.100 M | 0.100 | 0.100 M | 0.100 | 0.100 M | |
| | 04/28/05 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 07/26/05 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |

TABLE 3
GROUNDWATER ANALYTICAL PAHs
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

| Sample ID | Sample Date | Acenaphthene ($\mu\text{g/L}$) | Acenaphthiене ($\mu\text{g/L}$) | Anthracene ($\mu\text{g/L}$) | Benz(a)anthracene ($\mu\text{g/L}$) | Benz(s)pyrene ($\mu\text{g/L}$) | Benz(b)fluoranthene ($\mu\text{g/L}$) | Benz(g,h)perylene ($\mu\text{g/L}$) | Benz(d,k)fluoranthene ($\mu\text{g/L}$) | Chrysene ($\mu\text{g/L}$) | Dibenz(a,h)anthracene ($\mu\text{g/L}$) | Fluoranthene ($\mu\text{g/L}$) | Fluorene ($\mu\text{g/L}$) | Indeno(1,2,3-cd)pyrene ($\mu\text{g/L}$) | Naphthalene ($\mu\text{g/L}$) | Phenanthrene ($\mu\text{g/L}$) | Pyrene ($\mu\text{g/L}$) |
|-----------|-------------|-------------------------------------|--------------------------------------|-----------------------------------|--|--------------------------------------|--|--|--|---------------------------------|--|-------------------------------------|---------------------------------|---|------------------------------------|-------------------------------------|-------------------------------|
| MW-15 | 01/31/02 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | |
| | 04/24/02 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | |
| | 07/30/02 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 10/29/02 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 01/29/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 04/29/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.137 | 0.100 M | 0.100 M | |
| DUP | 04/29/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 07/29/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| DUP | 07/29/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 10/28/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 01/29/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 04/28/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 07/26/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 11/01/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 2/1/2005** | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 04/28/05 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 07/26/05 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| MW-16 | 02/01/02 | 1.4 | 0.200 U | 0.200 M | 0.200 M | 0.200 M | 0.200 U | 0.200 U | 0.200 M | 0.400 U | 0.358 | 2.97 | 0.200 U | 4.00 U | 1.71 | 0.342 | |
| | 04/25/02 | 1.16 | 0.100 U | 0.258 | 0.255 | 0.218 | 0.208 | 0.158 | 0.183 | 0.273 | 0.200 U | 0.642 | 2.84 | 0.138 | 1.50 U | 2.49 | 0.626 |
| | 07/30/02 | 1.34 | 0.200 M | 0.408 | 0.312 | 0.231 | 0.266 | 0.200 M | 0.200 M | 0.476 | 0.400 M | 0.676 | 2.65 | 0.200 M | 2.50 M | 2.97 | 0.942 |
| DUP | 07/30/02 | 1.36 | 0.200 M | 0.367 | 0.233 | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.374 | 0.400 M | 0.567 | 2.50 | 0.200 M | 2.50 M | 2.80 | 0.686 |
| | 11/27/02* | 4.12 | 1.00 U | 2.41 | 1.27 | 1.47 | 2.35 | 1.00 U | 1.00 U | 3.15 | 2.00 U | 2.99 | 11.9 | 1.00 U | 7.40 U | 13.5 | 3.27 |
| | 01/28/03 | 1.24 | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.400 M | 0.200 M | 2.37 | 0.200 M | 1.80 M | 1.74 | 0.235 | |
| DUP | 01/28/03 | 1.33 | 0.200 M | 0.242 | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.228 | 0.400 M | 0.298 | 2.73 | 0.200 M | 2.20 M | 2.38 | 0.368 | |
| | 04/29/03 | 2.78 | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.00 M | 5.86 | 1.00 M | 2.00 M | 4.86 | 1.00 M | |
| | 07/29/03 | 2.00 | 0.500 M | 0.614 | 0.640 | 0.633 | 1.06 | 0.500 M | 0.500 M | 1.10 | 1.00 M | 1.08 | 4.16 | 0.500 M | 4.50 M | 3.05 | 1.42 |
| | 10/28/03 | 1.53 | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.500 M | 3.05 | 0.500 M | 1.75 M | 2.17 | 0.500 M | |
| | 04/28/04 | 1.47 | 1.00 M | 1.00 M | 2.00 M | 1.00 M | 2.50 M | 1.00 M | 2.50 M | 2.00 M | 2.00 M | 3.22 | 1.00 M | 4.00 M | 2.17 | 1.00 M | |
| DUP | 04/28/04 | 2.23 | 1.00 M | 1.00 M | 2.00 M | 1.00 M | 2.50 M | 1.00 M | 2.50 M | 2.00 M | 2.00 M | 4.82 | 1.00 M | 4.00 M | 5.18 | 1.00 M | |
| | 07/26/04 | 2.50 M | 2.50 M | 2.50 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 2.50 M | 2.78 | 1.00 M | 4.00 M | 2.50 M | 1.00 M | |
| | 11/01/04 | 2.24 | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.00 M | 4.54 | 1.00 M | 1.50 M | 3.56 | 1.00 M | |

TABLE 3
GROUNDWATER ANALYTICAL PAHs
 Kinder Morgan Liquid Terminals LLC
 Linton Terminal
 Portland, Oregon

| Sample ID | Sample Date | Acenaphthene ($\mu\text{g/L}$) | Acenaphthylene ($\mu\text{g/L}$) | Anthracene ($\mu\text{g/L}$) | Benz(a)anthracene ($\mu\text{g/L}$) | Benz(a)pyrene ($\mu\text{g/L}$) | Benz(b)fluoranthene ($\mu\text{g/L}$) | Benz(g/h)perylene ($\mu\text{g/L}$) | Benz(k)fluoranthene ($\mu\text{g/L}$) | Chrysene ($\mu\text{g/L}$) | Dibenz(a,h)anthracene ($\mu\text{g/L}$) | Fluoranthene ($\mu\text{g/L}$) | Fluorene ($\mu\text{g/L}$) | Indeno(1,2,3-cd)pyrene ($\mu\text{g/L}$) | Naphthalene ($\mu\text{g/L}$) | Phenanthrene ($\mu\text{g/L}$) | Pyrene ($\mu\text{g/L}$) |
|-----------|-------------|-------------------------------------|---------------------------------------|-----------------------------------|--|--------------------------------------|--|--|--|---------------------------------|--|-------------------------------------|---------------------------------|---|------------------------------------|-------------------------------------|-------------------------------|
| MW-17 | 01/31/02 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 U | 0.214 | 0.100 U | 0.200 U | 0.301 | 0.100 U | |
| | 04/24/02 | 0.100 U | 0.100 U | 0.2100 M | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.187 | 0.100 U | |
| | 07/30/02 | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 1.00 M | 0.100 M | 0.100 M | |
| | 10/30/02 | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 1.00 M | 0.100 M | 0.100 M | |
| | 01/29/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 04/29/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.300 M | 0.100 M | 0.100 M | |
| DUP | 04/29/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.350 M | 0.100 M | 0.100 M | |
| | 07/29/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.250 M | 0.100 M | 0.100 M | |
| DUP | 07/29/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | |
| | 10/28/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 01/29/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 04/28/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 07/26/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 1.00 M | |
| | 11/01/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 2/1/2005** | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 04/28/05 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 07/26/05 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| MW-18 | 04/25/02 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | |
| DUP | 04/25/02 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.200 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | |
| | 07/29/02 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 10/30/02 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 01/29/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 04/29/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 07/30/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 10/29/03 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 01/30/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.251 | 0.100 M | |
| | 04/28/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 07/26/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 11/01/04 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 2/1/2005** | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |
| | 04/28/05 | 0.485 M | 0.485 M | 0.485 M | 0.485 M | 0.485 M | 0.485 M | 0.485 M | 0.485 M | 0.485 M | 0.971 M | 0.485 M | 0.485 M | 0.485 M | 0.485 M | 0.485 M | |
| | 07/26/05 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | |

TABLE 3
GROUNDWATER ANALYTICAL PAHs
Kinder Morgan Liquid Terminals LLC
Linton Terminal
Portland, Oregon

| Sample ID | Sample Date | Acenaphthene ($\mu\text{g/L}$) | Acenaphthyrene ($\mu\text{g/L}$) | Anthracene ($\mu\text{g/L}$) | Benz(a)anthracene ($\mu\text{g/L}$) | Benz(a)pyrene ($\mu\text{g/L}$) | Benz(b)fluoranthene ($\mu\text{g/L}$) | Benz(b)phenanthrene ($\mu\text{g/L}$) | Benz(k)fluoranthene ($\mu\text{g/L}$) | Chrysene ($\mu\text{g/L}$) | Dibenz(a,h)anthracene ($\mu\text{g/L}$) | Fluoranthene ($\mu\text{g/L}$) | Fluorene ($\mu\text{g/L}$) | Indeno(1,2,3-cd)pyrene ($\mu\text{g/L}$) | Naphthalene ($\mu\text{g/L}$) | Phenanthrene ($\mu\text{g/L}$) | Pyrene ($\mu\text{g/L}$) |
|-----------|-------------|-------------------------------------|---------------------------------------|-----------------------------------|--|--------------------------------------|--|--|--|---------------------------------|--|-------------------------------------|---------------------------------|---|------------------------------------|-------------------------------------|-------------------------------|
| MW-20 | 05/01/03 | 11.7 | 2.50 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.368 | 6.24 | 0.100 M | 5.00 M | 0.820 | 0.495 | |
| | 07/30/03 | 21.8 | 1.00 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.979 | 9.16 | 0.500 M | 8.00 M | 3.61 | 1.31 | |
| MW-21 | 05/01/03 | 6.08 | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.00 M | 6.13 | 1.00 M | 3.00 M | 2.59 | 1.00 M | |
| | 07/30/03 | 5.25 M | 0.750 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.500 M | 4.59 | 0.500 M | 6.50 M | 2.23 | 0.704 | |
| MW-22 | 05/01/03 | 2.67 | 0.100 M | 0.158 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.726 | 1.15 | 0.100 M | 1.70 M | 0.146 | 1.09 | |
| | 07/30/03 | 6.14 | 0.300 M | 0.362 | 0.223 | 0.219 | 0.200 M | 0.200 M | 0.200 M | 0.280 | 0.400 M | 1.68 | 1.70 | 0.200 M | 2.60 M | 2.22 | 2.31 |
| | 10/29/03 | 0.286 | 0.100 M | 0.150 M | 0.123 | 0.138 | 0.100 M | 0.125 | 0.100 M | 0.153 | 0.200 M | 0.835 | 0.110 | 0.100 M | 0.400 M | 0.150 M | 1.19 |
| | 01/30/04 | 1.90 | 0.300 M | 0.278 | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.400 M | 0.936 | 1.78 | 0.200 M | 1.70 M | 1.26 | 1.28 | |
| | 04/29/04 | 4.73 | 0.300 M | 0.332 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 1.16 | 1.75 | 0.100 M | 3.50 M | 3.09 | 1.41 | |
| | 07/26/04 | 6.24 | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.46 | 1.67 | 1.00 M | 4.50 M | 2.59 | 1.47 | |
| | 11/01/04 | 3.49 | 0.100 M | 0.218 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.968 | 1.12 | 0.100 M | 1.70 M | 1.20 | 1.65 | |
| | 2/2/2005** | 6.34 | 0.300 M | 0.389 | 0.144 | 0.124 | 0.200 M | 0.200 M | 0.200 M | 0.166 | 0.400 M | 1.51 | 2.28 | 0.200 M | 2.00 M | 2.81 | 2.03 |
| | 3/25/05*** | 7.09 | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.83 | 2.41 | 1.00 M | 2.50 M | 3.26 | 2.19 | |
| | 07/26/05 | 6.45 | 0.300 M | 0.370 | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.400 M | 1.76 | 2.19 | 0.200 M | 2.40 M | 2.85 | 2.07 | |
| MW-23 | 07/26/04 | 1.15 | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.83 | 2.41 | 1.00 M | 2.50 M | 3.26 | 2.19 | |
| | 11/01/04 | 1.39 | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.500 M | 2.47 | 0.500 M | 1.00 M | 2.02 | 0.500 M | |
| DUP | 11/01/04 | 1.31 | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.500 M | 2.29 | 0.500 M | 1.00 M | 1.86 | 0.500 M | |
| MW-24 | 07/26/04 | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.00 M | 1.55 | 1.00 M | 2.00 M | 1.35 | 1.00 M | |
| | 11/01/04 | 0.506 | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 0.500 M | 1.00 M | 0.500 M | 1.20 | 0.500 M | 0.500 M | 0.500 M | 0.500 M | |
| | 2/2/2005** | 0.527 | 0.100 M | 0.200 M | 0.0766 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.133 | 1.15 | 0.100 M | 0.550 M | 0.200 M | 0.260 | |
| | 04/28/05 | 0.829 | 0.556 M | 1.94 M | 0.805 | 0.556 M | 0.647 | 0.556 M | 0.556 M | 2.11 | 1.11 M | 0.943 | 1.68 | 0.556 M | 1.67 M | 1.11 M | 2.29 |
| DUP | 04/28/05 | 0.152 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.100 M | 0.179 | 0.100 M | 0.450 M | 0.100 M | 0.116 | |
| MW-25 | 04/28/05 | 0.596 | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.200 M | 0.400 M | 0.200 M | 0.29 | 0.200 M | 1.20 M | 0.200 M | 0.200 M | |
| | 07/26/05 | 0.600 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.175 | 0.413 | 0.100 M | 1.20 M | 0.281 | 0.269 | |
| MW-26 | 04/28/05 | 0.729 | 0.490 M | 0.490 M | 0.490 M | 0.490 M | 0.490 M | 0.490 M | 0.490 M | 0.980 M | 0.490 M | 2.19 | 0.490 M | 2.94 M | 1.05 | 0.490 M | |
| | 07/26/05 | 0.412 | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.100 M | 0.200 M | 0.121 | 1.08 | 0.100 M | 1.80 M | 0.22 | 0.165 | |
| MW-28 | 04/28/05 | 3.48 | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.00 M | 6.69 | 1.00 M | 3.50 M | 1.44 | 1.00 M | |
| | 07/26/05 | 4.50 M | 1.50 M | 1.50 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 1.00 M | 2.00 M | 1.00 M | 10.5 | 1.00 M | 9.50 M | 11.1 | 1.00 M | |
| RW-1 | 11/26/02* | 30.0 U | 25.0 U | 14.3 | 1.41 | 1.00 U | 1.70 | 1.00 U | 1.00 U | 4.19 | 2.00 U | 4.57 | 130 U | 1.00 U | 224 | 87.0 | 16.1 |
| RW-2 | 11/26/02* | 6.30 | 0.100 U | 2.42 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 1.83 | 2.00 U | 1.21 | 14.7 | 1.00 U | 56.2 | 17.7 | 1.75 |
| RW-3 | 11/26/02* | 70.0 U | 57.1 U | 19.5 | 2.48 | 2.02 | 1.43 | 1.14 U | 1.45 | 5.45 | 2.29 U | 6.02 | 186 U | 1.14 U | 100 U | 231 | 18.8 |

NOTES:

Polyaromatic Compounds (PAHs) analyzed by USEPA Method 8270M-SIM

$\mu\text{g/L}$ = micrograms per liter

J = Estimated Value

U = Analyte included in the analysis but not detected above laboratory method detection limits (MDLs)

M = Analyte included in the analysis but not detected above laboratory method reporting limits (MRLs)

Bold Face Font = Analyte detected above the MRLs

* = Additional RI Sampling

** = Laboratory flagged data because of method blank contamination.

*** = Resampling of three wells due to method blank contamination.

TABLE 4
GROUNDWATER ANALYTICAL - TOTAL METALS

Kinder Morgan Liquid Terminals LLC
Linnton Terminal
Portland, Oregon

| Sample ID | Sample Date | Arsenic (mg/L) | Barium (mg/L) | Cadmium (mg/L) | Chromium (mg/L) | Copper (mg/L) | Lead (mg/L) | Mercury (mg/L) | Selenium (mg/L) | Silver (mg/L) | Zinc (mg/L) |
|-----------|-------------|----------------|---------------|-----------------|-----------------|----------------|----------------|-----------------|------------------|---------------|----------------|
| MW-1 | 02/01/02 | 0.0051 | 0.137J | 0.00100 U | 0.0019 | 0.0035 | 0.00100 M | 0.000200 U | 0.00100 M | 0.00100 U | 0.0083 |
| | 11/26/02* | 0.00576 | 0.192 | 0.00100 U | 0.00638 | 0.0165 | 0.00580 | 0.000200 U | 0.00111 | 0.00100 U | 0.0278 |
| | 01/29/03 | 0.00408 | 0.142 | 0.00100 M | 0.00216 | 0.00657 | 0.00293 | 0.000400 M | 0.00100 M | 0.00100 M | 0.0113 |
| | 04/30/03 | 0.00451 | 0.102 | 0.00100 M | 0.00108 | 0.00200 M | 0.00100 M | 0.000200 M | 0.00123 | 0.00100 M | 0.00500 M |
| MW-2 | 11/26/02* | 0.0410 | 0.119 | 0.00100 U | 0.00132 | 0.00345 | 0.00497 | 0.000200 U | 0.00100 U | 0.00100 U | 0.00770 |
| MW-3 | 11/26/02* | 0.0196 | 0.152 | 0.00100 U | 0.00303 | 0.00599 | 0.00247 | 0.000200 U | 0.00140 | 0.00100 U | 0.0144 |
| MW-4 | 02/01/02 | 0.00554 | 0.0916 | 0.00100 U | 0.00100 M | 0.00248 | 0.00100 M | 0.000200 U | 0.00113 | 0.00100 U | 0.00500 M |
| | 04/25/02 | NA | NA | NA | NA | NA | 0.00100 U | NA | NA | NA | NA |
| | 07/29/02 | NA | NA | NA | NA | NA | 0.00100 M | NA | NA | NA | NA |
| | 10/30/02 | NA | NA | NA | NA | NA | 0.00438 | NA | NA | NA | NA |
| DUP | 10/30/02 | NA | NA | NA | NA | NA | 0.00607 | NA | NA | NA | NA |
| | 01/29/03 | 0.00503 | 0.0791 | 0.00100 M | 0.00102 | 0.00200 M | 0.00100 M | 0.000200 M | 0.00100 M | 0.00100 M | 0.00500 M |
| | 04/30/03 | 0.00511 | 0.0759 | 0.00100 M | 0.00100 M | 0.00200 M | 0.00100 M | 0.000200 M | 0.00137 | 0.00100 M | 0.00540 |
| | 07/29/03 | 0.0388 | 0.107 | 0.00500 M | 0.00733 | 0.00679 | 0.00177 | 0.000200 M | 0.00500 M | 0.00500 M | 0.0196 |
| | 10/28/03 | 0.0734 | 0.202 | 0.00100 M | 0.0197 | 0.0219 | 0.00898 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0735 |
| | 01/30/04 | 0.0123 | 0.0950 | 0.00100 M | 0.00132 | 0.00221 | 0.00100 M | 0.000200 M | 0.00117 | 0.00100 M | 0.0168 |
| | 04/29/04 | 0.0301 | 0.109 | 0.00100 M | 0.00616 | 0.00666 | 0.00242 | 0.000200 M | 0.00199 | 0.00100 M | 0.0226 |
| | 07/26/04 | 0.146 | 0.285 | 0.00653 M | 0.0345 | 0.0528 | 0.0156 | 0.000200 M | 0.00192 | 0.00100 M | 0.156 |
| | 11/01/04 | 0.207 | 0.560 | 0.00100 M | 0.0745 | 0.0917 | 0.0296 | 0.000328 | 0.00190 | 0.00100 M | 0.285 |
| | 02/02/05 | 0.110 | 0.250 | 0.00100 M | 0.0293 | 0.0366 | 0.0134 | 0.000200 M | 0.00200 M | 0.00100 M | 0.105 |
| | 04/28/05 | 0.0228 | 0.0921 | 0.000190 | 0.00443 | 0.00816 | 0.00203 | 0.000200 M | 0.000480 | 0.00100 M | 0.0246 |
| | 07/26/05 | 0.0721 | 0.214 | 0.00100 M | 0.0178 | 0.0188 | 0.00971 | 0.000200 M | 0.00162 | 0.00100 M | 0.0874 |
| DUP | 07/26/05 | 0.0633 | 0.187 | 0.00100 M | 0.0143 | 0.0149 | 0.00845 | 0.000200 M | 0.00104 | 0.00100 M | 0.0720 |
| MW-5 | 02/01/02 | 0.00342 | 0.14 | 0.00100 M | 0.00611 | 0.0161 | 0.00809 | 0.000200 U | 0.00100 M | 0.00100 U | 0.0356 |
| | 04/24/02 | NA | NA | NA | NA | NA | 0.00976 | NA | NA | NA | NA |
| | 07/30/02 | NA | NA | NA | NA | NA | 0.00722 | NA | NA | NA | NA |
| | 01/28/03 | 0.00248 | 0.0801 | 0.00100 M | 0.00316 | 0.00675 | 0.00475 | 0.000800 M | 0.00100 M | 0.00100 M | 0.0222 |
| | 04/30/03 | 0.00195 | 0.0637 | 0.00100 M | 0.00210 | 0.00662 | 0.00387 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0170 |
| | 01/29/04 | 0.00243 | 0.0855 | 0.00100 M | 0.00218 | 0.00646 | 0.00463 | 0.000200 M | 0.00110 | 0.00100 M | 0.0243 |
| | 04/28/04 | 0.00188 | 0.0729 | 0.00100 M | 0.00244 | 0.00560 | 0.00305 | 0.000200 M | 0.00105 | 0.00100 M | 0.0152 |
| MW-6 | 02/01/02 | 0.0403 | 0.204 | 0.00189 | 0.00163 | 0.0069 | 0.00265 | 0.000200 U | 0.00100 M | 0.00100 U | 0.0486 |
| | 04/24/02 | NA | NA | NA | NA | NA | 0.00143 | NA | NA | NA | NA |
| | 01/29/03 | 0.0465 | 0.182 | 0.00100 M | 0.00253 | 0.00724 | 0.00651 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0617 |
| | 04/29/03 | 0.0391 | 0.0961 | 0.00100 M | 0.00100 M | 0.00200 | 0.00100 M | 0.000200 M | 0.00100 M | 0.00100 M | 0.00819 |
| | 01/29/04 | 0.0551 | 0.129 | 0.00100 M | 0.00100 M | 0.00430 | 0.00206 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0178 |
| DUP | 01/29/04 | 0.0570 | 0.137 | 0.00100 M | 0.00100 M | 0.00417 | 0.00203 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0156 |
| | 04/28/04 | 0.0587 | 0.109 | 0.00100 M | 0.00106 | 0.00379 | 0.00137 | 0.000200 M | 0.00234 | 0.00100 M | 0.0130 |
| | 04/28/05 | 0.0484 | 0.136 | 0.000320 | 0.00258 | 0.0126 | 0.00612 | 0.000200 M | 0.000600 | 0.00100 M | 0.0658 |

TABLE 4
GROUNDWATER ANALYTICAL - TOTAL METALS
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

| Sample ID | Sample Date | Arsenic (mg/L) | Barium (mg/L) | Cadmium (mg/L) | Chromium (mg/L) | Copper (mg/L) | Lead (mg/L) | Mercury (mg/L) | Selenium (mg/L) | Silver (mg/L) | Zinc (mg/L) | |
|-----------|-------------|----------------|----------------|-----------------|-----------------|----------------|----------------|----------------|-----------------|-----------------|----------------|---------------|
| MW-7 | 01/31/02 | 0.00339 | 0.0786 | 0.00100 M | 0.00294 | 0.00673 | 0.00214 | 0.000200 U | 0.00100 M | 0.00100 U | 0.014 | |
| | 04/24/02 | NA | NA | NA | NA | NA | 0.00240 | NA | NA | NA | NA | |
| | 07/29/02 | NA | NA | NA | NA | NA | 0.00735 | NA | NA | NA | NA | |
| | 10/29/02 | NA | NA | NA | NA | NA | 0.0346 | NA | NA | NA | NA | |
| | 01/28/03 | 0.00161 | 0.0574 | 0.00100 M | 0.00100 M | 0.00318 | 0.00106 | 0.000200 M | 0.00100 M | 0.00100 M | 0.00763 | |
| | 04/29/03 | 0.00171 | 0.0629 | 0.00100 M | 0.00174 | 0.00396 | 0.00219 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0135 | |
| | 07/29/03 | 0.00500 M | 0.0735 | 0.00500 M | 0.00676 | 0.00675 | 0.00223 | 0.000200 M | 0.00500 M | 0.00500 M | 0.0166 | |
| | 10/28/03 | 0.00180 | 0.0516 | 0.00100 M | 0.00100 M | 0.00292 | 0.00100 M | 0.000200 M | 0.00100 M | 0.00100 M | 0.00595 | |
| | DUP | 10/28/03 | 0.00578 | 0.185 | 0.00100 M | 0.00873 | 0.0199 | 0.00980 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0532 |
| | | 01/29/04 | 0.00239 | 0.0769 | 0.00100 M | 0.00286 | 0.00563 | 0.00249 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0201 |
| | | 04/28/04 | 0.00219 | 0.105 | 0.00100 M | 0.00347 | 0.00848 | 0.00411 | 0.000200 M | 0.00100 | 0.00100 M | 0.0214 |
| | | 07/26/04 | 0.00705 | 0.176 | 0.00664M | 0.00895 | 0.0221 | 0.00779 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0554 |
| | | 11/01/04 | 0.0134 | 0.255 | 0.00100 M | 0.0198 | 0.0372 | 0.0159 | 0.000200 M | 0.00100 M | 0.00100 M | 0.101 |
| | | 02/01/05 | 0.00740 | 0.140 | 0.00100 M | 0.00826 | 0.0165 | 0.00758 | 0.000200 M | 0.00200 M | 0.00100 M | 0.0426 |
| | | 04/28/05 | 0.00305 | 0.0850 | 0.000160 | 0.00241 | 0.00592 | 0.00263 | 0.000200 M | 0.000420 | 0.00100 M | 0.0170 |
| | | 07/26/05 | 0.00564 | 0.123 | 0.00100 M | 0.00568 | 0.0113 | 0.00607 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0382 |
| MW-8 | 02/01/02 | 0.00884 | 0.0396 | 0.00100 M | 0.00100 M | 0.00100 M | 0.01160 | 0.000200 U | 0.00100 M | 0.00100 U | 0.00500 M | |
| | 04/25/02 | NA | NA | NA | NA | NA | 0.00761 | NA | NA | NA | NA | |
| | 07/29/02 | NA | NA | NA | NA | NA | 0.00510 | NA | NA | NA | NA | |
| | 10/30/02 | NA | NA | NA | NA | NA | 0.00495 | NA | NA | NA | NA | |
| | 01/29/03 | 0.00530 | 0.0348 | 0.00100 M | 0.00100 M | 0.00200 M | 0.0147 | 0.000200 M | 0.00100 M | 0.00100 M | 0.00979 | |
| | 04/30/03 | 0.00560 | 0.0265 | 0.00100 M | 0.00100 M | 0.00200 M | 0.00900 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0121 | |
| | 07/29/03 | 0.00922 | 0.106 | 0.00500 M | 0.00500 M | 0.00500 M | 0.00355 | 0.000200 M | 0.00500 M | 0.00500 M | 0.0172 | |
| | 10/28/03 | 0.00284 | 0.0502 | 0.00100 M | 0.00156 | 0.00318 | 0.00373 | 0.000200 M | 0.00104 | 0.00100 M | 0.00704 | |
| | 01/30/04 | 0.00333 | 0.0318 | 0.00100 M | 0.00100 M | 0.00200 M | 0.0109 | 0.000200 M | 0.00100 M | 0.00100 M | 0.00743 | |
| | 04/29/04 | 0.00204 | 0.0414 | 0.00100 M | 0.00214 | 0.00742 | 0.00864 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0144 | |
| | 07/26/04 | 0.00184 | 0.0500 | 0.00100 M | 0.00169 | 0.00317 | 0.00461 | 0.000200 M | 0.00113 | 0.00100 M | 0.0110 | |
| | 11/01/04 | 0.00100 M | 0.0347 | 0.00100 M | 0.00100 M | 0.00200 M | 0.00133 | 0.000200 M | 0.00100 M | 0.00100 M | 0.00500 M | |
| | 02/02/05 | 0.00308 | 0.0554 | 0.00206 | 0.00210 | 0.00786 | 0.00899 | 0.000200 M | 0.00200 M | 0.00100 M | 0.0230 | |
| | 04/29/05 | 0.00194 | 0.0362 | 0.000410 | 0.000730 | 0.00334 | 0.00640 | 0.000200 M | 0.00100 M | 0.00100 M | 0.00967 | |
| | 07/26/05 | 0.00157 | 0.0394 | 0.00100 M | 0.00100 M | 0.00175 | 0.00407 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0113 | |

TABLE 4
GROUNDWATER ANALYTICAL - TOTAL METALS
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

| Sample ID | Sample Date | Arsenic (mg/L) | Barium (mg/L) | Cadmium (mg/L) | Chromium (mg/L) | Copper (mg/L) | Lead (mg/L) | Mercury (mg/L) | Selenium (mg/L) | Silver (mg/L) | Zinc (mg/L) |
|-----------|-------------|----------------|---------------|----------------|-----------------|----------------|----------------|-----------------|-----------------|----------------|----------------|
| MW-9 | 02/01/02 | 0.0384 | 0.288 | 0.00100 M | 0.0228 | 0.048 | 0.02390 | 0.000200 U | 0.00133 | 0.00100 M | 0.106 |
| | 04/25/02 | NA | NA | NA | NA | NA | 0.00102 | NA | NA | NA | NA |
| | 07/29/02 | NA | NA | NA | NA | NA | 0.03840 | NA | NA | NA | NA |
| | 10/30/02 | NA | NA | NA | NA | NA | 0.0802 | NA | NA | NA | NA |
| | 01/29/03 | 0.0308 | 0.0806 | 0.00100 M | 0.00265 | 0.00462 | 0.00273 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0162 |
| | 04/30/03 | 0.0352 | 0.0889 | 0.00100 M | 0.00306 | 0.00530 | 0.00390 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0199 |
| | 07/30/03 | 0.0570 | 0.351 | 0.00500 M | 0.0359 | 0.0645 | 0.0351 | 0.000200 M | 0.00500 M | 0.00500 M | 0.177 |
| | 10/29/03 | 0.0455 | 0.352 | 0.00100 M | 0.0284 | 0.0616 | 0.0339 | 0.000200 M | 0.00100 M | 0.00100 M | 0.154 |
| | 01/30/04 | 0.0527 | 0.143 | 0.00100 M | 0.00629 | 0.0118 | 0.00820 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0601 |
| | 04/29/04 | 0.0468 | 0.0915 | 0.00100 M | 0.00374 | 0.00723 | 0.00392 | 0.000200 M | 0.00169 | 0.00100 M | 0.0284 |
| | 07/26/04 | 0.0650 | 0.276 | 0.00624 M | 0.00772 | 0.0147 | 0.00961 | 0.000200 M | 0.00192 | 0.00100 M | 0.0708 |
| | 11/01/04 | 0.118 | 1.80 | 0.00154 | 0.223 | 0.366 | 0.142 | 0.000546 | 0.00318 | 0.00117 | 0.959 |
| | 02/02/05 | 0.110 | 0.937 | 0.00150 | 0.0868 | 0.174 | 0.110 | 0.000200 M | 0.00200 M | 0.00100 M | 0.469 |
| | 04/28/05 | 0.0789 | 0.489 | 0.00117 | 0.0402 | 0.0693 | 0.0428 | 0.000200 M | 0.00136 | 0.00100 M | 0.232 |
| | 07/26/05 | 0.0856 | 0.596 | 0.00149 | 0.0493 | 0.0920 | 0.0574 | 0.000200 M | 0.00195 | 0.00100 M | 0.294 |
| MW-10 | 02/01/02 | 0.00576 | 0.0204 | 0.00100 U | 0.00149 | 0.00200 M | 0.00308 | 0.000200 U | 0.00100 M | 0.00100 U | 0.00563 |
| DUP | 02/01/02 | 0.00465 | 0.0128 | 0.00100 U | 0.00103 | 0.00200 M | 0.00226 | 0.000200 U | 0.00100 U | 0.00100 U | 0.00500 M |
| | 04/25/02 | NA | NA | NA | NA | NA | 0.00648 | NA | NA | NA | NA |
| | 11/27/02* | 0.0187 | 0.553 | 0.00286 | 0.107 | 0.167 | 0.153 | 0.000200 U | 0.00208 | 0.00122 | 0.465 |
| | 04/30/03 | 0.00672 | 0.0600 | 0.00100 M | 0.00661 | 0.0116 | 0.0477 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0421 |
| | 07/30/03 | 0.00500 M | 0.0254 | 0.00500 M | 0.00520 | 0.00500 M | 0.0123 | 0.000200 M | 0.00500 M | 0.00500 M | 0.0155 |
| | 10/29/03 | 0.00496 | 0.0273 | 0.00100 M | 0.00100 M | 0.00200 M | 0.00941 | 0.000200 M | 0.00100 M | 0.00100 M | 0.00500 M |
| MW-12 | 01/31/02 | 0.0594 | 0.0804 | 0.00100 U | 0.00138 | 0.00200 M | 0.00175 | 0.000200 U | 0.00100 M | 0.00100 U | 0.00500 M |
| | 04/25/02 | NA | NA | NA | NA | NA | 0.00444 | NA | NA | NA | NA |
| | 07/29/02 | NA | NA | NA | NA | NA | 0.00860 | NA | NA | NA | NA |
| DUP | 07/29/02 | NA | NA | NA | NA | NA | 0.00768 | NA | NA | NA | NA |
| | 10/29/02 | NA | NA | NA | NA | NA | 0.0208 | NA | NA | NA | NA |
| | 01/28/03 | 0.0576 | 0.0886 | 0.00100 M | 0.00337 | 0.00396 | 0.00618 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0115 |
| | 04/29/03 | 0.0624 | 0.0836 | 0.00100 M | 0.00219 | 0.00300 | 0.00496 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0144 |
| | 07/29/03 | 0.0636 | 0.0476 | 0.00500 M | 0.00500 M | 0.00500 M | 0.00187 | 0.000200 M | 0.00500 M | 0.00500 M | 0.00500 M |
| | 10/28/03 | 0.0704 | 0.130 | 0.00100 M | 0.00992 | 0.0132 | 0.0188 | 0.000200 M | 0.00200 M | 0.00100 M | 0.0318 |
| | 01/29/04 | 0.0736 | 0.0938 | 0.00100 M | 0.00358 | 0.00456 | 0.00918 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0172 |
| | 04/29/04 | 0.0778 | 0.0683 | 0.00100 M | 0.00136 | 0.00200 M | 0.00192 | 0.000200 M | 0.00100 M | 0.00100 M | 0.00500 M |
| | 07/26/04 | 0.0698 | 0.101 | 0.00100 M | 0.00449 | 0.00645 | 0.00694 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0170 |
| | 11/01/04 | 0.0702 | 0.226 | 0.00100 M | 0.0223 | 0.0300 | 0.0218 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0657 |
| | 02/02/05 | 0.0875 | 0.137 | 0.00100 M | 0.00834 | 0.00986 | 0.0115 | 0.000200 M | 0.00200 M | 0.00100 M | 0.0260 |
| | 04/28/05 | 0.0698 | 0.0787 | 0.00100 M | 0.00201 | 0.00259 | 0.00378 | 0.000200 M | 0.00100 M | 0.00100 M | 0.00870 |
| | 07/26/05 | 0.0692 | 0.0709 | 0.00100 M | 0.00105 | 0.00100 M | 0.00250 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0100 M |

TABLE 4
GROUNDWATER ANALYTICAL - TOTAL METALS
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

| Sample ID | Sample Date | Arsenic (mg/L) | Barium (mg/L) | Cadmium (mg/L) | Chromium (mg/L) | Copper (mg/L) | Lead (mg/L) | Mercury (mg/L) | Selenium (mg/L) | Silver (mg/L) | Zinc (mg/L) |
|-----------|-------------|----------------|---------------|-----------------|-----------------|----------------|----------------|------------------|-----------------|---------------|---------------|
| MW-13 | 01/31/02 | 0.0551 | 0.254 | 0.00100 U | 0.0156 | 0.0259 | 0.0138 | 0.000200 U | 0.00100 M | 0.00100 U | 0.0648 |
| DUP | 01/31/02 | 0.0543 | 0.266 | 0.00100 U | 0.0177 | 0.0279 | 0.0145 | 0.000200 U | 0.00100 M | 0.00100 M | 0.0764 |
| | 04/25/02 | NA | NA | NA | NA | NA | 0.0109 | NA | NA | NA | NA |
| DUP | 04/25/02 | NA | NA | NA | NA | NA | 0.0150 | NA | NA | NA | NA |
| | 07/29/02 | NA | NA | NA | NA | NA | 0.4170 | NA | NA | NA | NA |
| | 10/29/02 | NA | NA | NA | NA | NA | 2.59 | NA | NA | NA | NA |
| DUP | 10/29/02 | NA | NA | NA | NA | NA | 2.02 | NA | NA | NA | NA |
| | 01/28/03 | 0.0608 | 0.0951 | 0.00100 M | 0.00280 | 0.00422 | 0.00451 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0233 |
| DUP | 01/28/03 | 0.0608 | 0.0949 | 0.00100 M | 0.00299 | 0.00381 | 0.00409 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0133 |
| | 04/29/03 | 0.0511 | 0.214 | 0.00100 M | 0.0112 | 0.0174 | 0.0160 | 0.000200 M | 0.00100 M | 0.00100 M | 0.195 |
| | 07/29/03 | 0.0397 | 0.0919 | 0.00500 M | 0.00510 | 0.00500 M | 0.00221 | 0.000200 M | 0.00500 M | 0.00500 M | 0.0220 |
| | 10/28/03 | 0.105 | 0.721 | 0.00100 M | 0.0586 | 0.115 | 0.0725 | 0.000200 M | 0.00113 | 0.00100 M | 0.268 |
| | 01/29/04 | 0.0720 | 0.216 | 0.00100 M | 0.00948 | 0.0140 | 0.0139 | 0.000200 M | 0.00100 M | 0.00100 M | 0.237 |
| | 04/28/04 | 0.0838 | 0.272 | 0.00100 M | 0.0134 | 0.0257 | 0.0226 | 0.000200 M | 0.00125 | 0.00100 M | 0.0781 |
| | 07/28/04 | 0.0895 | 0.483 | 0.00637M | 0.0458 | 0.0771 | 0.0459 | 0.000200 M | 0.00100 M | 0.00100 M | 0.201 |
| DUP | 07/28/04 | 0.0685 | 0.353 | 0.00648M | 0.0306 | 0.0516 | 0.0296 | 0.000200 M | 0.00100 M | 0.00100 M | 0.136 |
| | 11/01/04 | 0.224 | 5.29 | 0.0100 M | 0.628 | 1.03 | 0.767 | 0.000981 | 0.0100 M | 0.0100 M | 2.58 |
| | 02/01/05 | 0.102 | 0.303 | 0.00100 M | 0.0246 | 0.0420 | 0.0321 | 0.000200 M | 0.00200 M | 0.00100 M | 0.112 |
| DUP | 02/01/05 | 0.100 | 0.339 | 0.00100 M | 0.0248 | 0.0401 | 0.0321 | 0.000200 M | 0.00200 M | 0.00100 M | 0.112 |
| | 04/28/05 | 0.0917 | 0.401 | 0.000380 | 0.0332 | 0.0485 | 0.0319 | 0.000200 M | 0.000990 | 0.00100 M | 0.156 |
| | 07/26/05 | 0.0938 | 0.536 | 0.00100 M | 0.0404 | 0.0671 | 0.0435 | 0.000200 M | 0.00168 | 0.00100 M | 0.205 |
| MW-14 | 01/31/02 | 0.0165 | 0.456 | 0.00100 M | 0.0402 | 0.078 | 0.0332 | 0.000200 U | 0.00100 M | 0.00100 M | 0.199 |
| | 04/24/02 | NA | NA | NA | NA | NA | 0.0140 | NA | NA | NA | NA |
| | 07/30/02 | NA | NA | NA | NA | NA | 0.2520 | NA | NA | NA | NA |
| | 10/29/02 | NA | NA | NA | NA | NA | 0.103 | NA | NA | NA | NA |
| | 01/29/03 | 0.0149 | 0.341 | 0.00100 M | 0.0364 | 0.0604 | 0.0269 | 0.000200 M | 0.00100 M | 0.00100 M | 0.168 |
| | 04/29/03 | 0.00954 | 0.328 | 0.00100 M | 0.0228 | 0.0466 | 0.0231 | 0.000200 M | 0.00100 M | 0.00100 M | 0.186 |
| | 07/29/03 | 0.00500 M | 0.0485 | 0.00500 M | 0.00500 M | 0.00520 | 0.00100 M | 0.000200 M | 0.00500 M | 0.00500 M | 0.0148 |
| | 10/28/03 | 0.00451 | 0.130 | 0.00100 M | 0.00703 | 0.0150 | 0.00590 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0382 |
| | 01/29/04 | 0.00456 | 0.162 | 0.00100 M | 0.00888 | 0.0180 | 0.00797 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0495 |
| | 04/28/04 | 0.0146 | 0.349 | 0.00100 M | 0.0294 | 0.0566 | 0.0269 | 0.000200 M | 0.00173 | 0.00100 M | 0.146 |
| | 07/26/04 | 0.00836 | 0.998 | 0.00635M | 0.00866 | 0.0327 | 0.00606 | 0.000238 | 0.00103 | 0.00100M | 0.0954 |
| | 11/01/04 | 0.101 | 2.60 | 0.0100 M | 0.243 | 0.436 | 0.192 | 0.000223 | 0.0100 M | 0.0100 M | 1.29 |
| | 02/01/05 | 0.0248 | 0.567 | 0.00100 M | 0.0440 | 0.0895 | 0.0542 | 0.000200 M | 0.00200 M | 0.00100 M | 0.242 |
| | 04/28/05 | 0.0186 | 0.357 | 0.000570 | 0.0329 | 0.0541 | 0.0271 | 0.0000690 | 0.000960 | 0.00100 M | 0.176 |
| | 07/26/05 | 0.0230 | 0.452 | 0.00100 M | 0.0387 | 0.0680 | 0.0344 | 0.000200 M | 0.00163 | 0.00100 M | 0.222 |

TABLE 4
GROUNDWATER ANALYTICAL - TOTAL METALS
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

| Sample ID | Sample Date | Arsenic (mg/L) | Barium (mg/L) | Cadmium (mg/L) | Chromium (mg/L) | Copper (mg/L) | Lead (mg/L) | Mercury (mg/L) | Selenium (mg/L) | Silver (mg/L) | Zinc (mg/L) |
|-----------|-------------|----------------|----------------|----------------|-----------------|----------------|----------------|-----------------|-----------------|----------------|---------------|
| MW-15 | 01/31/02 | 0.00951 | 0.262 | 0.00100 M | 0.0224 | 0.0355 | 0.0133 | 0.000200 U | 0.0011 | 0.00100 U | 0.0936 |
| | 04/24/02 | NA | NA | NA | NA | NA | 0.0754 | NA | NA | NA | NA |
| | 07/30/02 | NA | NA | NA | NA | NA | 0.2270 | NA | NA | NA | NA |
| | 10/29/02 | NA | NA | NA | NA | NA | 0.0190 | NA | NA | NA | NA |
| | 01/29/03 | 0.0113 | 0.299 | 0.00100 M | 0.0329 | 0.0464 | 0.0197 | 0.000200 M | 0.00100 M | 0.00100 M | 0.142 |
| | 04/29/03 | 0.00359 | 0.0986 | 0.00100 M | 0.00965 | 0.0109 | 0.00529 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0331 |
| | DUP | 04/29/03 | 0.00322 | 0.0842 | 0.00100 M | 0.00894 | 0.00905 | 0.00409 | 0.000200 M | 0.00100 M | 0.00100 M |
| DUP | 07/29/03 | 0.0361 | 1.34 | 0.0500 M | 0.0858 | 0.145 | 0.0798 | 0.000200 M | 0.0500 M | 0.0500 M | 0.553 |
| | 07/29/03 | 0.0239 | 0.765 | 0.00500 M | 0.0538 | 0.0971 | 0.0492 | 0.000200 M | 0.00500 M | 0.00500 M | 0.274 |
| | 10/28/03 | 0.0135 | 1.57 | 0.00100 M | 0.0466 | 0.0792 | 0.0155 | 0.000200 M | 0.00246 | 0.00100 M | 0.302 |
| | 01/29/04 | 0.00322 | 0.0942 | 0.00100 M | 0.00874 | 0.00883 | 0.00374 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0288 |
| | 04/28/04 | 0.00343 | 0.279 | 0.00100 M | 0.0115 | 0.0167 | 0.00460 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0556 |
| | 07/26/04 | 0.00810 | 0.186 | 0.00100 M | 0.0147 | 0.0286 | 0.0112 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0790 |
| | 11/01/04 | 0.0780 | 2.28 | 0.00100 M | 0.261 | 0.370 | 0.110 | 0.000237 | 0.00477 | 0.00155 | 1.10 |
| MW-16 | 02/01/02 | 0.116 | 0.354 | 0.00100 M | 0.0465 | 0.0508 | 0.0312 | 0.000200 U | 0.00100 M | 0.00100 M | 0.144 |
| | 04/25/02 | NA | NA | NA | NA | NA | 0.00998 | NA | NA | NA | NA |
| | 07/30/02 | NA | NA | NA | NA | NA | 0.120 | NA | NA | NA | NA |
| | DUP | 07/30/02 | NA | NA | NA | NA | 0.126 | NA | NA | NA | NA |
| | 11/27/02* | 0.120 | 3.69 | 0.00100 U | 0.610 | 0.546 | 0.323 | 0.000265 | 0.00100 U | 0.00100 U | 1.40 |
| | 01/28/03 | 0.0908 | 0.104 | 0.00100 M | 0.00704 | 0.00652 | 0.00702 | 0.000400 M | 0.00100 M | 0.00100 M | 0.0216 |
| | DUP | 01/28/03 | 0.0891 | 0.135 | 0.00100 M | 0.0121 | 0.0116 | 0.0106 | 0.000400 M | 0.00100 M | 0.00100 M |
| DUP | 04/29/03 | 0.0895 | 0.0885 | 0.00100 M | 0.00696 | 0.00764 | 0.00828 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0247 |
| | 07/29/03 | 0.116 | 5.83 | 0.100 M | 0.718 | 0.764 | 0.466 | 0.000854 | 0.100 M | 0.100 M | 2.18 |
| | 10/28/03 | 0.112 | 0.397 | 0.00100 M | 0.0498 | 0.0511 | 0.0355 | 0.000200 U | 0.00100 M | 0.00100 M | 0.130 |
| | 04/28/04 | 0.106 | 0.0996 | 0.00100 M | 0.00673 | 0.00614 | 0.00712 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0175 |
| | 04/28/04 | 0.0994 | 0.116 | 0.00100 M | 0.00811 | 0.00796 | 0.0102 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0248 |
| | 07/26/04 | 0.120 | 0.336 | 0.00638M | 0.0166 | 0.0139 | 0.0152 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0690 |
| | 11/01/04 | 0.111 | 0.188 | 0.00100 M | 0.0119 | 0.0112 | 0.00843 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0334 |

TABLE 4
GROUNDWATER ANALYTICAL - TOTAL METALS
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

| Sample ID | Sample Date | Arsenic (mg/L) | Barium (mg/L) | Cadmium (mg/L) | Chromium (mg/L) | Copper (mg/L) | Lead (mg/L) | Mercury (mg/L) | Selenium (mg/L) | Silver (mg/L) | Zinc (mg/L) |
|-----------|-------------|----------------|---------------|-----------------|-----------------|----------------|----------------|----------------|-----------------|---------------|----------------|
| MW-17 | 01/31/02 | 0.00574 | 0.209 | 0.00100 U | 0.00604 | 0.00954 | 0.00374 | 0.000200 U | 0.00100 U | 0.00100 U | 0.0242 |
| | 04/24/02 | NA | NA | NA | NA | NA | 0.0106 | NA | NA | NA | NA |
| | 07/30/02 | NA | NA | NA | NA | NA | 0.0801 | NA | NA | NA | NA |
| | 10/30/02 | NA | NA | NA | NA | NA | 0.115 | NA | NA | NA | NA |
| | 01/29/03 | 0.00858 | 0.161 | 0.00100 M | 0.0116 | 0.0177 | 0.0106 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0558 |
| | 04/29/03 | 0.0109 | 0.133 | 0.00100 M | 0.00694 | 0.0110 | 0.00589 | 0.000200 M | 0.00117 | 0.00100 M | 0.0358 |
| DUP | 04/29/03 | 0.0119 | 0.148 | 0.00100 M | 0.00738 | 0.0120 | 0.00679 | 0.000200 M | 0.00124 | 0.00100 M | 0.0417 |
| | 07/29/03 | 0.0338 | 0.477 | 0.00500 M | 0.0461 | 0.0865 | 0.0485 | 0.000200 M | 0.00500 M | 0.00500 M | 0.218 |
| DUP | 07/29/03 | 0.0213 | 0.203 | 0.00500 M | 0.0170 | 0.0311 | 0.0139 | 0.000200 M | 0.00500 M | 0.00500 M | 0.0733 |
| | 10/28/03 | 0.0308 | 0.820 | 0.00359 | 0.0802 | 0.164 | 0.0757 | 0.000200 M | 0.00141 | 0.00100 M | 0.401 |
| | 01/29/04 | 0.00429 | 0.125 | 0.00100 M | 0.00510 | 0.00895 | 0.00484 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0295 |
| | 04/28/04 | 0.0136 | 0.216 | 0.00100 M | 0.0137 | 0.0257 | 0.0123 | 0.000200 M | 0.00129 | 0.00100 M | 0.0736 |
| | 07/28/04 | 0.0235 | 0.268 | 0.00100 M | 0.0213 | 0.0391 | 0.0178 | 0.000200 M | 0.00128 | 0.00100 M | 0.106 |
| | 11/01/04 | 0.0218 | 0.411 | 0.00100 M | 0.0464 | 0.0866 | 0.0362 | 0.000200 M | 0.00142 | 0.00100 M | 0.223 |
| | 02/01/05 | 0.0112 | 0.259 | 0.00116 | 0.0188 | 0.0353 | 0.0198 | 0.000200 M | 0.00200 M | 0.00100 M | 0.0908 |
| | 04/28/05 | 0.00658 | 0.162 | 0.000160 | 0.0103 | 0.0152 | 0.00914 | 0.000200 M | 0.000550 | 0.00100 M | 0.0525 |
| | 07/26/05 | 0.0139 | 0.149 | 0.00100 M | 0.00691 | 0.0116 | 0.00713 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0428 |
| MW-18 | 04/25/02 | NA | NA | NA | NA | NA | 0.0362 | NA | NA | NA | NA |
| DUP | 04/25/02 | NA | NA | NA | NA | NA | 0.0294 | NA | NA | NA | NA |
| | 07/29/02 | NA | NA | NA | NA | NA | 0.0094 | NA | NA | NA | NA |
| | 10/30/02 | NA | NA | NA | NA | NA | 0.0460 | NA | NA | NA | NA |
| | 01/29/03 | 0.00255 | 0.0930 | 0.00100 M | 0.00340 | 0.00593 | 0.00269 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0178 |
| | 04/29/03 | 0.00935 | 0.329 | 0.00100 M | 0.0248 | 0.0363 | 0.0230 | 0.000200 M | 0.00100 M | 0.00100 M | 0.118 |
| | 07/30/03 | 0.0386 | 0.768 | 0.00500 M | 0.0734 | 0.121 | 0.0655 | 0.000200 M | 0.00500 M | 0.00500 M | 0.342 |
| | 10/29/03 | 0.0348 | 0.781 | 0.00100 M | 0.0787 | 0.132 | 0.0694 | 0.000200 M | 0.00100 M | 0.00100 M | 0.364 |
| | 01/30/04 | 0.00295 | 0.159 | 0.00100 M | 0.00540 | 0.00916 | 0.00384 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0284 |
| | 04/28/04 | 0.00482 | 0.112 | 0.00100 M | 0.00702 | 0.00950 | 0.00487 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0287 |
| | 07/26/04 | 0.00359 | 0.227 | 0.00100 M | 0.00532 | 0.0124 | 0.00328 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0380 |
| | 11/01/04 | 0.0374 | 0.670 | 0.00100 M | 0.0903 | 0.152 | 0.0565 | 0.000200 M | 0.00189 | 0.00100 M | 0.427 |
| | 02/01/05 | 0.0188 | 0.553 | 0.00100 M | 0.0360 | 0.0581 | 0.0353 | 0.000200 M | 0.00200 M | 0.00100 M | 0.176 |
| | 04/28/05 | 0.00857 | 0.174 | 0.00100 M | 0.0161 | 0.0208 | 0.0110 | 0.000200 M | 0.000360 | 0.00100 M | 0.0747 |
| | 07/26/05 | 0.00870 | 0.187 | 0.00100 M | 0.0159 | 0.0219 | 0.0116 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0774 |
| MW-20 | 05/01/03 | 0.00887 | 0.0290 | 0.00100 M | 0.00156 | 0.00213 | 0.00230 | 0.000200 M | 0.00100 M | 0.00100 M | 0.00834 |
| | 07/30/03 | 0.0149 | 0.107 | 0.00500 M | 0.0131 | 0.0226 | 0.00898 | 0.000200 M | 0.00500 M | 0.00500 M | 0.0442 |
| MW-21 | 05/01/03 | 0.00571 | 0.108 | 0.00100 M | 0.0123 | 0.0237 | 0.0297 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0641 |
| | 07/30/03 | 0.0119 | 0.120 | 0.00500 M | 0.0134 | 0.0621 | 0.0269 | 0.000200 M | 0.00500 M | 0.00500 M | 0.0467 |

TABLE 4
GROUNDWATER ANALYTICAL - TOTAL METALS
 Kinder Morgan Liquid Terminals LLC
 Linnton Terminal
 Portland, Oregon

| Sample ID | Sample Date | Arsenic (mg/L) | Barium (mg/L) | Cadmium (mg/L) | Chromium (mg/L) | Copper (mg/L) | Lead (mg/L) | Mercury (mg/L) | Selenium (mg/L) | Silver (mg/L) | Zinc (mg/L) |
|-----------|-------------|----------------|---------------|-----------------|-----------------|----------------|----------------|------------------|-----------------|-----------------|----------------|
| MW-22 | 05/01/03 | 0.00377 | 0.0146 | 0.00100 M | 0.00100 M | 0.00200 M | 0.00100 M | 0.000200 M | 0.00100 M | 0.00100 M | 0.00500 M |
| | 07/30/03 | 0.0148 | 0.114 | 0.00500 M | 0.0143 | 0.0195 | 0.0121 | 0.000200 M | 0.00500 M | 0.00500 M | 0.0493 |
| | 10/29/03 | 0.00751 | 0.270 | 0.00100 M | 0.0172 | 0.0354 | 0.0193 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0924 |
| | 01/30/04 | 0.00100 M | 0.0116 | 0.00100 M | 0.00105 | 0.00200 M | 0.00100 M | 0.000200 M | 0.00100 M | 0.00100 M | 0.00575 |
| | 04/29/04 | 0.00861 | 0.0244 | 0.00100 M | 0.00126 | 0.0245 | 0.00119 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0136 |
| | 07/26/04 | 0.0137 | 0.164 | 0.00631 M | 0.0147 | 0.0311 | 0.0143 | 0.000200 M | 0.00114 | 0.00100 M | 0.0785 |
| | 11/01/04 | 0.116 | 0.0818 | 0.00100 M | 0.00467 | 0.00903 | 0.00431 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0238 |
| | 02/02/05 | 0.00933 | 0.0291 | 0.00100 M | 0.00100 M | 0.00200 M | 0.00104 | 0.000200 M | 0.00200 M | 0.00100 M | 0.00500 M |
| | 07/26/05 | 0.00967 | 0.0254 | 0.00100 M | 0.00100 M | 0.00100 M | 0.00161 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0139 |
| MW-23 | 07/26/04 | 0.0559 | 0.551 | 0.00663 M | 0.0442 | 0.0498 | 0.0165 | 0.000200 M | 0.00156 | 0.00100 M | 0.152 |
| | 11/01/04 | 0.0562 | 0.755 | 0.00936 | 0.177 | 0.188 | 0.0641 | 0.000455 | 0.00132 | 0.00100 M | 0.406 |
| DUP | 11/01/04 | 0.0535 | 0.730 | 0.00807 M | 0.170 | 0.187 | 0.0630 | 0.000364 | 0.00100 M | 0.00100 M | 0.394 |
| MW-24 | 07/26/04 | 0.118 | 2.64 | 0.0318 M | 0.394 | 0.508 | 0.341 | 0.000243 | 0.00805 | 0.00500 M | 1.31 |
| | 11/01/04 | 0.0616 | 2.48 | 0.00100 M | 0.393 | 0.480 | 0.268 | 0.000372 | 0.00183 | 0.00135 | 1.29 |
| | 02/02/05 | 0.0118 | 0.975 | 0.00100 M | 0.0463 | 0.0620 | 0.0731 | 0.000200 M | 0.00100 M | 0.00100 M | 0.158 |
| | 04/28/05 | 0.0475 | 0.564 | 0.000480 | 0.0492 | 0.0620 | 0.0706 | 0.000200 M | 0.00132 | 0.00100 M | 0.168 |
| DUP | 04/28/05 | 0.0407 | 0.605 | 0.000620 | 0.0597 | 0.0747 | 0.0861 | 0.000200 M | 0.00136 | 0.00100 M | 0.201 |
| MW-25 | 04/28/05 | 0.241 | 5.04 | 0.00618 | 0.467 | 0.733 | 0.408 | 0.000586 | 0.0122 | 0.00194 | 2.25 |
| | 07/26/05 | 0.0234 | 0.0960 | 0.00100 M | 0.00184 | 0.00271 | 0.00519 | 0.000200 M | 0.00100 M | 0.00100 M | 0.0186 |
| MW-26 | 04/28/05 | 0.276 | 6.78 | 0.0121 | 0.507 | 1.04 | 0.468 | 0.000697 | 0.0158 | 0.00240 | 3.02 |
| | 07/26/05 | 0.152 | 0.698 | 0.00127 | 0.0490 | 0.116 | 0.0593 | 0.000200 M | 0.00248 | 0.00100 M | 0.448 |
| MW-28 | 04/28/05 | 0.126 | 1.01 | 0.00388 | 0.0788 | 0.153 | 0.0992 | 0.0000859 | 0.00295 | 0.000360 | 0.552 |
| | 07/26/05 | 0.118 | 0.638 | 0.00269 | 0.0528 | 0.112 | 0.0764 | 0.000349 | 0.00216 | 0.00100 M | 0.344 |
| RW-1 | 11/26/02* | 0.0168 | 0.183 | 0.00100 U | 0.00852 | 0.01990 | 0.00798 | 0.000200 U | 0.00100 U | 0.00100 U | 0.0868 |
| RW-2 | 11/26/02* | 0.00760 | 0.206 | 0.00385 | 0.0104 | 0.0226 | 0.0105 | 0.000200 U | 0.00100 U | 0.00100 U | 0.0795 |
| RW-3 | 11/26/02* | 0.00444 | 0.132 | 0.00100 U | 0.00276 | 0.00711 | 0.00270 | 0.000200 U | 0.00133 | 0.00100 U | 0.0129 |

NOTES:

Total Metals analyzed by USEPA Method 6000/7000 Series Method

mg/l = Milligrams per liter

NA = Not Analyzed

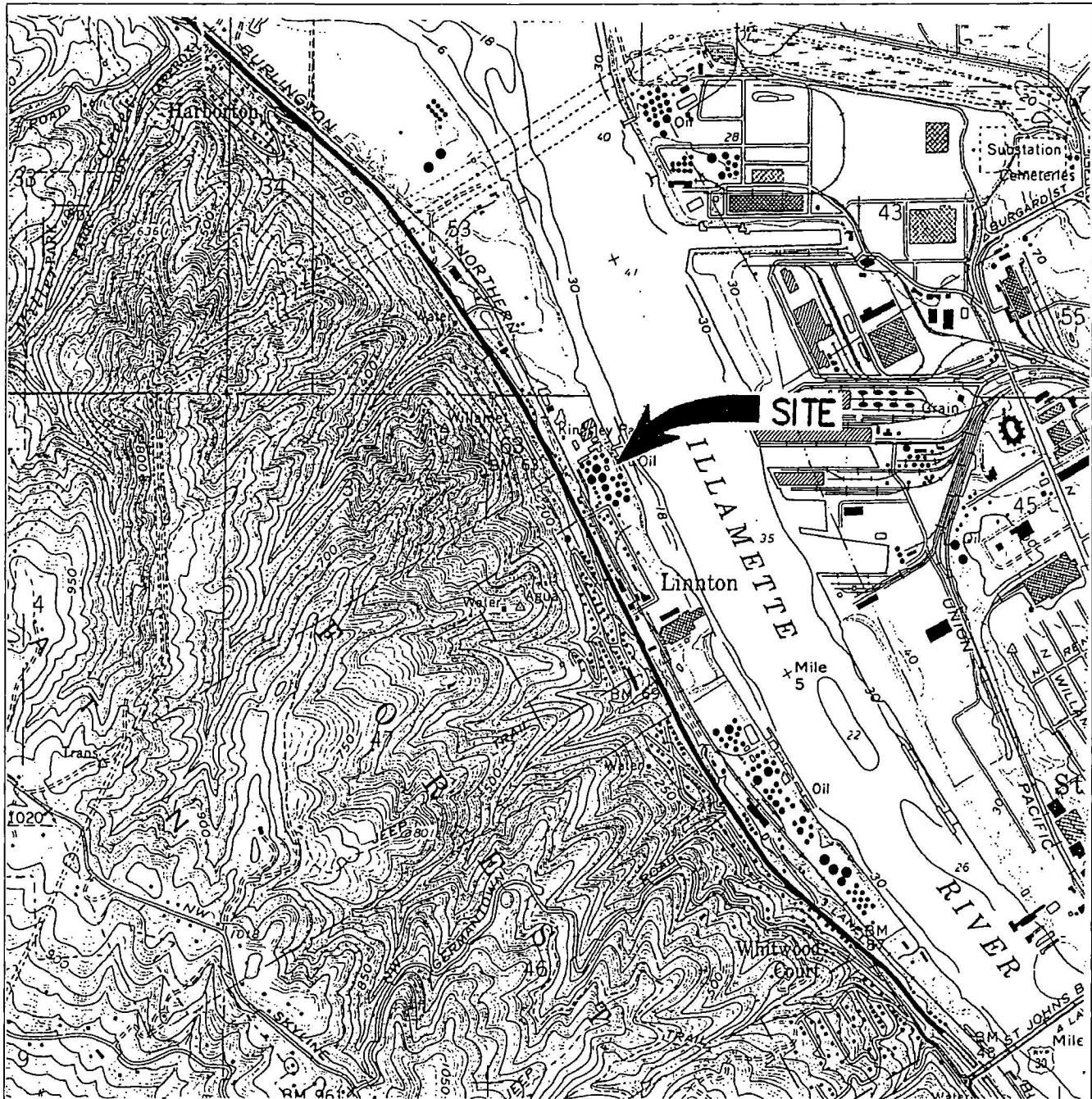
J = Estimated Value

U = Analyte included in the analysis but not detected above laboratory method detection limits (MDLs)

M = Analyte included in the analysis but not detected above laboratory method reporting limits (MRLs)

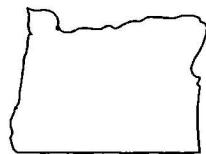
Bold Face Font = Analyte detected above the MRLs

* = Additional RI Sampling



REFERENCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP
LINNTON, OREGON, 1961
PHOTOREVISED 1984

SCALE 1 : 25,000



North

QUADRANGLE LOCATION

FIGURE 1

SITE LOCATION MAP

Kinder Morgan Liquid Terminals LLC - Linnton Terminal
11400 NW St. Helens Road
Portland, Oregon

| | |
|--------------------------------|----------------------------|
| PROJECT NO. PTKM-001-3.0001 | DRAWN BY CRF |
| FILE NO. | PREPARED BY CRF 9/14/05 |
| REVISION NO. | REVIEWED BY |



